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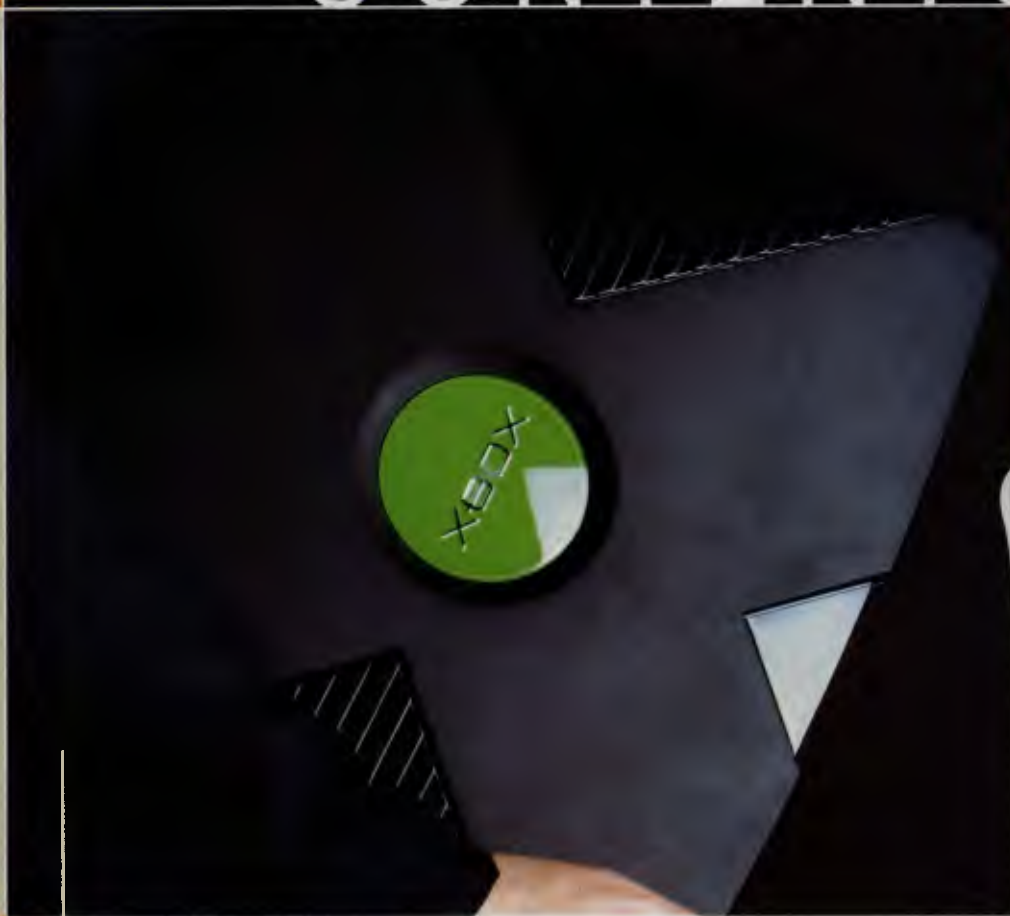


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XBOX XPOSED

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APC ORDERED AN XBOX DIRECT FROM THE US, AND PROMPTLY RIPPED THE HOOD OFF IT. WE GIVE YOU THE LOWDOWN ON THE GAMES, THE TECHNOLOGY AND HOW IT COMPARES TO PS2.

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- **ITV:** Remember digital TV?

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- **Microsoft Office X for Mac:** Finally, an app for OS X.
- **Pinnacle Pro-ONE:** Real-time DV editing and DVD authoring for serious enthusiasts.
- **Sony Cyber-shot:** The DSC-P5 digital camera is small, sculpted, ergonomic — and cyber-rific.
- **Lexmark X83:** The Kentucky company has a crack at the all-in-one scanner, copier and printer box.

■ **Microsoft Plus!** For XP games, themes, screensavers and digital media, plus a hefty price tag.

■ **TDK Tremor S-150:** Flat-panel technology in speakers? Apparently so.

■ **ASUS A7V266-E:** A motherboard for tweak freaks.

■ **Quicken Personal Plus 2002:** Finances shminances. This tool manages your bank accounts, savings and investments, credit cards, mortgages, loans and superannuation.



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APC staffers' bookmarks for the month.

PRIVACY NOTICE

Please see page 160 for APC's Privacy Notice.



C O N T E N T S

WORKSHOP

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You've bought a new PC, and now you're wondering what to do with old faithful in the corner. Turn it into a fleet-of-foot Linux gateway to share an Internet connection, give it to your kids, or just play with it yourself and find out what all the Linux fuss is about.

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Use Access to build database relationships that actually work.

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By combining the power of Photoshop and ImageReady, you can add rollovers to your Web page without being a Web guru. *APC* shows you how to do this and more.

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As *APC* dives into the New Year so does our online section, apcmag.com. We're planning bigger and better things in 2002, such as full-blown reader forums, news feeds and Web-only competitions. Keep your eye on the *APC* Update for more information. Speaking of which, if you haven't yet subscribed to the weekly *APC* email, point your browser to www.apcmag.com and subscribe now!!

MICROSOFT MANIA

To coincide with this month's special look at Microsoft's Xbox, the *APC* Web team has put together an Xbox mini-site. It brings together all the online links, reviews and downloads to celebrate the Australian launch of the Xbox on 14 March, 2002. Check it out at www.apcmag.com/xbox from Wednesday 6 February, 2002.

NICE THREADS

This month saw some interesting discussion in the features forum on *APC*'s choice of winners for our 2001 Technology Awards — especially the selection of Windows XP as Best Product of 2001.

According to apcmag.com visitor Stuart, who is a recent convert to Mac OS X, "Installation of the OS was so simple and quick, it was like 'Wow!'. Would I go back to a Windows box, or an anything box for that matter? No way!".

What do you think? Have your say at www.apcmag.com.

And don't forget, the apcmag.com team welcomes your opinions. We're keen to know what you want to see on our site, so don't hold back. Tell us what you think via the online feedback form on the site or email us at apc@apcmag.com.



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CD CONTENTS

CD 1

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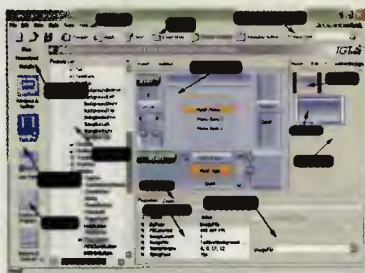
Your dated computer isn't ready for the scrap heap yet. Because Linux has low hardware requirements, it's a perfect operating system for older components. Star Office 5.2 and some other free software will get you started.

HANDHELDS SUPERGUIDE

On this month's CD set you'll find the latest updates to the Palm desktop, and to Microsoft ActiveSync, which allows you to synchronise your data quickly when working on the road.

XP UPDATE KIT

Get Windows XP working just the way you like it with these great customisation tools, and the latest XP software updates.



WORKSHOP Linux feature Freeciv, Gimp, Hopkins FBI (M-Rated), StarOffice, TuxTyping, XMMS **Windows** 602Pro PC Suite 2001, IrfanView 3.61, Microsoft PowerToys for Windows XP 1.0, PowerDVD XP 4.0, Stardock WindowBlinds 3.0, WinDVD 3.0, ZoneLabs ZoneAlarm 2.6 **Mac** Conflict Catcher 8.1, Diffusion Effect, Font Explorer 1.3, Font Reserve 2.6, Fonts Manager 3.9.3, Suitcase Ten 10.1 **Handhelds** Beam Box 1.22, InStep Print 2.1, IR Mail 1.1, IR Pong 1.1, IRBattleShip 2.0, IrChat 1.0, IRCheSS 2.0, OmniRemote 1.171 **Office** DeZign for databases 2.5

Photoshop HomeButton.psd **Flash** FlareWorks Express 1.1, Flash Typer 2, FlashJester Creator 1.2, Moho 2.7, Swift-Generator 0.20.5, SWISH 2.0, Wildform Flx

NEED TO LOAD Windows Copernic 2001 Basic, DJ Java Decompiler 2.9.9.61, Executive Software Diskeeper 7.0, Remote Administrator 2.1, SWISH 2.0, Trillian 0.70, TweakMASTER 1.6, Windows Media Player Bonus Pack **Mac** Clean-Install Assistant 1.5.2, Drop Drawers 1.5.8 and Drop Drawers X 1.5.8, Glidel 5.2, Hostal 1.1.4, QiPo 1.5.2 **Linux** Heroes, Gnet 1.4.1, gFTP 2.0.9, KDE 2.2.2 **Handhelds** ActiveSync 3.5, CityTime for Pocket PC 1.5.3, Mars Needs Cows 1.0, MedAlarm 1.0, myDigo 1.0.1, pDB-1 1.1b, PE Pocket Explorer 2002 5.0, PocketWelcome, What-When-Where 1.0

HANDHELDS SUPERGUIDE Microsoft ActiveSync 3.5, Palm Desktop 2.6.3 for Macintosh, Palm Desktop 4.0.1 for Windows, Palm Updater for HotSync 3.1.1 for Windows (for all other Palms), Palm Updater for HotSync 4.0 for Windows (for Palm m500) **XP UPDATE KIT** 12Ghosts XP.03, Customizer XP 1.4, Microsoft PowerToys for Windows XP, MSN Messenger 4.5, PowerDVD 3.0 update for Windows XP, StyleBuilder beta 2.5 and Style XP beta 3, TechFacts XP 1.40, Windows XP Migration Tool **ON TEST** ASUS A7V266-E, Leadtek Winfast Titanium TH GeForce2, Ulead DVD MovieFactory 1.0

READER REQUESTS AccountLogon, MUSICMATCH Jukebox Basic 7.0 **TOOLKIT** Adobe Acrobat Reader 5.0, Aladdin StuffIt Expander 6.5, BitchX 1.0c17, Downloader for X 1.30, Eudora 5.1, FinderPop 1.9.2, Fresh Download 2.5, GKrellM 1.2.4, GraphicConverter 4.0.9, ICQ 2001b v5.18 Build 3659, Interarchy 5.0.1, Licq 1.03, Palm Desktop 2.6.3, PowerStrip 3.10, ProZilla 1.3.6, RealPlayer 8.0 Basic, SiSoft Sandra 2001te Standard, smIRCle 1.0.1a25, TechTool Lite 3.0.1, Tex-Edit Plus 4.1.2, Toms Root Boot disk 1.7.361, Webmin 0.91, Winamp 2.78, Windows Media Player for Mac 7.01, WinZip 8.1, WS_FTP LE 5.08, XMMS 1.2.5 **BROWSERS** Microsoft Internet Explorer 5.1 (Mac), Microsoft Internet Explorer 6.0, Netscape 6.2.1

CD 2

IMAGE EDITORS

ACDSee 4.0, Adobe Photoshop Elements, GraphicConverter (PowerPC) 4.1, ImageForge Pro 2.98, IrfanView 3.61, LView Pro 2001/Winter, Macromedia Fireworks 4.0, Paint Shop Pro 7.04 with Animation Shop 3, PhotoImpact 7.0

PC GAMES

Legacy of Kain: Soul Reaver 2, Star Trek: Armada II

WORLD CYBER GAMES

Age of Empires II: The Age of Kings, Half-Life: Counter-Strike Mod, Quake III: Team Arena, Unreal Tournament (Uber-Demo) 3.48

DIRECTX

DirectX 8.1 runtime



IMAGE MAKEOVER

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Comparison with other web hosters as taken from their websites on 24 September 2001

Domain name costs are for 2 years and include GST-

Company	ilisys	Telstra	Web Central	Commander	NetRegistry
.com .net .org	\$40	\$165	\$66	\$66	\$110
.com.au	\$110	\$165	\$135	\$135	\$140

Entry-level domain hosting packages

Specifications vary from package to package

Company	ilisys	Telstra	Web Central	Commander	Net Registry
Hosting package	basic	-	Economy	Bronze	The Promoter
Server space	20 MB	-	20 MB	20 MB	35 MB
Monthly transfers	1 GB	-	500 MB	500 MB	1 GB
Domain name .com	\$40	-	\$66	\$66	\$110
	for 2 years		for 2 years	for 2 years	for 2 years
Set up fee	0	-	\$64	\$59	\$108.90
Cost of basic package	\$199	-	\$420	\$370	\$382.80
Total including GST.	\$239	-	\$550	\$495	\$601.70

Business Packages

Specifications vary from package to package

Company	ilisys	Telstra	Web Central	Commander	Net Registry
Hosting package	Standard	Business	Business	Platinum	The Business
Server space	100MB	100MB	70MB	1 GB	50MB
Monthly transfers	2 GB	1 GB	750 MB	2GB	1.5 GB
Domain name .com	FREE	\$165	\$66	\$66	\$110
	for 1 year	for 2 years	for 2 years	for 2 years	for 2 years
Set up fee	0	\$110	\$97	\$99	\$108.90
Cost of basic package	\$489	\$1320	\$665	\$2990	\$778.80
Total including GST.	\$489	\$1,595	\$828	\$3,155	\$997.70

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ISSUE 278 FEBRUARY 2002



WHY WE'RE BACKING BLUETOOTH

You've heard all the objections to Bluetooth. It's too unpredictable. There's not enough hardware out there. Windows doesn't support it. If these objections sound familiar, it's because they're a replay of 1995 attitudes towards the then-new USB technology. Every sledge aimed at the Universal Serial Bus is being rehashed for Bluetooth.

Having witnessed USB prove so many wrong, APC is confident Bluetooth's time will come. And yes, it will take time. USB needed some three years to mature — with the help of Windows 98, Apple's iMac and a growth in USB printers, scanners, cameras, MP3 players, storage devices, mice and keyboards.

These days you'd be mad to buy a PC without at least two USB ports. And in a few years, the same will apply to Bluetooth. Sure, some of the drivers need some fit and finish — which is where Bluetooth support in Windows XP will help when it arrives.

Bluetooth can suffer from inconsistent range and reliability, but with each set of Bluetooth cards we see at APC, the results keep getting better.

The hardware will come, too. The first phones, notebooks and DV cameras are here, and 3Com and Xircom are getting notebooks and handhelds connected. And anyone who believes Bluetooth will be knocked out by 802.11b wireless networking doesn't understand that these are complementary systems. Bluetooth is a short range, low-power technology that works with personal devices; WiFi's longer range and higher speed is designed for networking PCs to the rest of your IT infrastructure.

We believe that wireless is the way forward. That's why we're going against the tide and backing Bluetooth.

David Flynn

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Contact Optus **Phone** 1300 555 488

Online www.optusinteractive.com.au **Price** \$39.95 or \$59.95 per month; \$199 or \$399 installation

BIG AND FLAT



LG has released a 60in (152cm) plasma high-definition widescreen television for use with PCs, DVDs, VCRs and digital television. Aimed at boardrooms and public spaces, the Flatron Plasma has a viewing angle of 160°. Also available in the range are a 40in (102cm) standard definition 4:3 unit and a 42in (107cm) widescreen unit. The 60in unit is less than 10cm deep, and will set you back a sobering \$39,999.

Contact LG Australia **Phone** (02) 9684 8000

Online www.lge.com.au **Price** \$12,999 to \$39,999

KNOW



ESPIONAGE EQUIPMENT

Benq, the new trading name for Acer Communications and Multimedia, has recently released the 300mini digital camera. Featuring 8MB of internal memory, the camera stores up to 107 images at 640 x 480 resolution. A USB port on the side of the unit allows you to download images and video directly to your computer without carrying around cables. The image quality is not outstanding, but it's passable, and at half the size of a pack of cigarettes, you'll feel like James Bond with it in your pocket.

Contact Benq Australia **Phone** (02) 9714 6800

Online www.acercm.com.au **Price** TBA



SUN POWERED

If you've ever had a mobile phone run out of batteries in a remote location, then there's a good chance you'd appreciate the iSun. It's a portable solar charger designed for small electronic devices requiring less than 2W — in other words, most GPSes, mobile phones, walkmans, and MP3 players. Two models are offered — a silver coloured model targeted at the suit-and-tie brigade, and a yellow version, designed for outdoors enthusiasts.

Contact ICP Global Technologies

Online www.isunpower.com

Price CAN\$120

(AUD\$150)

SHIP WATCH

Finnish sports instrument company Suunto produces a fleet of sports watches for the outdoor enthusiast. The Yachtsman boasts a slew of features useful for any mariner, including a digital compass, barometer, stopwatch and sailing timer, all visible on a massive screen that should remain clear even in howling winds and pounding waves. The maxi model in the series is the M9 at around \$1,400, which also includes a GPS, electronic navigation and an altimeter.

Contact Sheldon and Hammond **Phone** (02) 9482 6666

Online www.suunto.com **Price** \$710





► Do your homework. Shop around for special student discounts.

LET THE CHILDREN PAY

LIFE'S TOUGH ENOUGH FOR STUDENTS WITHOUT HAVING TO CONTENT WITH SOARING SOFTWARE PRICES.

It happens at the start of every term. Schools and students pay big bucks for hardware, then don't have enough left to buy software. The solution? Piracy.

To neutralise "playground" black markets, some software makers give educational institutions and individual students big discounts on must-have

software. However, some companies are more generous than others. APC asks the big-name companies what breaks they give to students.

ADOBE

59% off Photoshop

Street price: \$1,649; Student price: \$679

Marketing manager Jordan Reizes admits the price of Photoshop is still too high for many students:

"People use Adobe products as tools to make a living. These are things that lead to a job in multimedia in the future." Adobe still wants to give students a chance, so it offers a mix of big discounts and special no-frills versions. "Photoshop Elements is a great option for students. Then, when they're ready to step up to the full version of Photoshop, they don't have to learn everything from scratch." Adobe also knocks more than 80% off Illustrator. "Illustrator is slightly different. There is no bridge between the professional product (for example, there's no Illustrator Elements), so we've adjusted the price to make it accessible."



MACROMEDIA

65% off Web Design Studio (Flash, Dreamweaver, Fireworks and FreeHand)

Street price: \$1,795; Student price: \$619

Web design is now a cornerstone of the curriculum, and Macromedia has revamped pricing to suit classroom teaching. "If you want to sell software to schools, you have to price it in such a way that they can afford it," said country manager John Treloar. "The value of the software is more than what schools are paying, but I'd rather this than have a school buy one product and (illegally) copy it across many computers." Like most companies, Macromedia makes individual students pay more than schools for the same software. Treloar recognises the huge demand among cash-strapped students. "It's what the professionals use and I want it to be priced so that kids can use it."



SYMANTEC

40% off Norton AntiVirus

Street price: \$93.50; Student price: \$56.10

Symantec offers a 40% discount to educational institutions and post-school students, but not school students. "If it's going on a home computer, it's not really part of the curriculum," said managing director John Donovan. However, he claims higher education is different. "Basically, students were saying 'we can't afford the price of software' and pirating it. We've tried to turn the situation around to give them access to software in a way that doesn't make them into criminals." Around 10% of sales now come from the education market. "It's a good seeding exercise. [Students] learn on those products and use the same products in the workplace."



MICROSOFT

70% to 80% off Office XP Professional

Street price: \$1,288; Student price: \$249 until the end of April (usually \$366)

This year, Microsoft has finally decided to reintroduce discounts for school students. So why didn't they give school kids a break until now? "That's a good question," said national education manager Don Carlson. "Part of it is leakage and control. Years ago when we offered it, there was no mechanism to ensure that people getting the discount were genuine school students. We've tidied that up now." Its most popular product, Office XP, also has new anti-piracy technology. Microsoft already offers discounts of "around" 70% to post-school students and educational institutions.



FUTURE PHONE

CARE TO HAVE A STAB AT THE FUTURE OF MOBILE TELEPHONES?

If these design concepts are anything to go by, the mobile phone could soon resemble a piece straight from the set of *Star Trek*. Videophones, clip-on arm bands, paper-thin screens — it's enough to have the average techno-geek slaving at the mouth.

Our favourite is the unit pictured right.

Essentially, it's an all-in-one handheld PC and videophone, complete with plug-in camera, touchscreen and headset. Its unofficial name is the "personal secretary".

If you're keen to avoid the "just stepped off the Enterprise" look, perhaps the unit below is more your style.

It's designed to look like a sunglasses case, and there's even a choice of detachable leather covers for the fashion conscious.

Before you get too excited, both terminals are a charade — they don't actually work. The promise of high-tech voice, video and data phones is still a long way off, but these are just some of many wild ideas being thrown around about the shape of "3G" phones. The units pictured are the work of third-year design students at RMIT in Melbourne, who also dreamt up a way to solve the problem of mobile phones ringing in churches or cinemas. The answer is to make each phone comply with a set of "zones", such as a quiet zone, a community zone or a loud zone.



► "Sounds great Sue, now beam me up please."

3G has proved a hit in Japan, but it's still a long way off in Australia. Hutchison has quit much of its existing phone business to roll out a 3G network over the next five years with Ericsson. The network won't be officially launched until late 2002, or more likely 2003. Meanwhile, Optus has teamed up with Nokia and expects to spend more than \$900 million over seven years on its 3G service.

William Maher



► "Snake skin" or "randy red"? Decisions, decisions . . .

RETRO RETURNS

Those blocky old 8-bit video games just never go away. Remember Amstrad? It's trying to find the copyright owners of old Sinclair Spectrum games, which were a big hit in Australian lounge rooms nearly 20 years ago. Amstrad says it has an "exciting new project" planned for this year — rumour has it that the games are being resurrected for mobile phone screens.

WHAT THE BENQ?

Acer Communications and Multimedia has changed its name to Benq. What's it mean? We have no idea, but here's what the company believes: "The interaction of the key senses is visualised by a unique, original, friendly, as well as stylish element, that builds the letter 'Q'. The letter 'Q' in its distinctive shape and form, focuses on the key enjoyment expressions of Benq being exciting and aspirational. The original and modern form of the word mark, with its smiling 'swoosh', communicates the brand promise. The word mark's clear lines and sharp forms also communicate a professional, top-quality, smart image, which projects quality products contributing to a quality lifestyle." Benq only covers Acer's peripherals, so you can rest assured that the Acer name hasn't completely done a Benq — sorry — bunk.

Benq

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DOMAIN GAMES

EVER COPPED A HEFTY FEE FOR REGISTERING YOUR .AU NET ADDRESS?

Aussie domain owners are crying foul, saying they've been tricked into expensive fees by registration companies other than their own. What's more, this unscrupulous practice has been going on for years.

The way the scam works is like this: domain registry businesses send out cleverly worded letters to people and businesses with domain names registered with another domain registry firm. The letters ask the domain name holders to register with the new company.

The problem is that people have mistakenly presumed that the letter is a renewal notice or similar from their existing domain registry company and signed the letter and returned it. By doing so, the victims are inadvertently transferring their domain name to the new registry business. More often than not, this is for a greatly inflated fee.

The registry companies know everything: the people's names, their home addresses, sometimes even their telephone numbers. "They're very indiscriminate. They just send it to anyone. Some of these people, we don't even know where they are getting their lists," says Tom Valenta of Australia's largest domain registry Melbourne IT.

One complainant is mobile phone business MAN Logistics, which discovered last year that one of its .au domains was no longer registered with Melbourne IT, but with a rival registry.

As it turns out, a company secretary had inadvertently authorised the switch after getting an official-looking renewal form from the new registry. From \$137.50, the fee for registering the domain name went to \$215.

This is not the only trick used to hook unwitting domain owners. Popular tactics include buy-one-get-one-free offers, or simple scare tactics, where domain owners are urged to re-register early or risk losing their beloved Web site to someone else.

Jim Vandore, for example, owns the address www.growersmarkets.com.au and received an offer for free listing on a "New Internet Directory". Underneath were the words, "listing comes with domain management". The free



► *Price hike: individuals and businesses have been inadvertently signing management of their domain names away and are being charged exorbitant fees as a result.*

listing simply seemed to be a ploy to get domain registration fees.

"They're pumping up the cost of registering your name. It's smoke and mirrors stuff," Valenta said. "Most of these people are so slippery that what they are saying is not illegal."

This year, domain owners should be able to breathe a little easier, with new rules that guard against domain "hijacking" and make sure rival registries identify themselves clearly.

Melbourne IT is also taking some extra precautions: a special PIN code must be entered before anyone can re-register a Net address. "You won't be able to have your domain whipped out from under you," promised Valenta. Of course, Melbourne IT also doesn't want to risk losing business to rival registries.

The race for Net addresses has gone full circle, with domain registries now scrambling to sign up Aussies who are renewing registration of their .au domains. To avoid a nasty surprise and a hole in your wallet, it's best to heed the following warnings.

First, be wary of offers to have your domain registered for 10 years. More competition should mean cheaper prices in the future. Don't get stuck paying through the nose.

Second, check to see who you are registering with. Is it the same company you signed with the first time? Sometimes you might well be surprised.

William Maher

ALL YOUR FAULT

Nokia is blaming customers for a recurring screen fault in some Nokia phones (APC December, page 23). The NSW Department of Fair Trading hauled Nokia in to explain itself after hearing complaints on talk-back radio station 2UE. "Nokia says it is the manner in which people treat their phones," said Norman Cossey from the Department's ministerial liaison branch. He said Nokia will conduct a (voluntary) "education strategy" and must keep the department informed of its progress. Nokia spokesperson Antony Wilson won't say how they plan to educate us all.

SNEAK PEEK!

Napster has offered this sneak peek at its new pay-music service. The new Napster should be launched sometime soon and will offer music downloads from major labels such as AOL Time Warner and EMI. Meanwhile, RealNetworks has beaten Napster to it, with the new RealOne service. For US\$9.95 (about AUD\$19.30) a month you get major label music downloads and video channels. At the moment it's all US content.



► *Nearly back in business.*

SAMPA JUMPA LAGI, DELL

TECHNICAL SUPPORT IS EVEN TOUGHER IF YOU DON'T SPEAK THE SAME LANGUAGE.

When Trish Gray rang Dell from her Beacon Hill home to fix a printing glitch, she couldn't make out what the person on the other end was saying. "I often had to beg their pardon, and had to say things for the third time," she said. "It turned out to be a simple problem, but I had to go through such an ordeal to fix it."

Dell is the world's top-selling PC maker and claims to have the best customer service, but it wasn't the first time Gray had problems getting help. "I'm sure it's difficult for them to talk with someone who has English as a first language. It isn't their fault and they were very polite and did their best. It's the Dell company that is putting them in a difficult position."

When you ring Dell's customer hotline, you're patched through to a huge call centre in Malaysia. Dell's Australian corporate communications director Rob Small admitted some English-speaking Australians have had trouble understanding staff who have Chinese or Malay as their first language. "I know we have had some complaints from some people, but those complaints are few and far between," he said. Mark Knowles from Davidson also had trouble understanding support staff when he tried to get a refund (see Watchdog, page 42).

Dell relocated its Australian customer support to Penang about 12 months ago (business support is still handled from Dell's Sydney HQ). "In the early days, it was more of a problem, but they've worked to change it and I'm surprised it's come up again," Small said. The huge call centre serves the entire Asian region and is divided into "countries", with special teams trained in the cultural quirks of their adopted nationality. "They're given an appreciation for local customs and conditions of the country . . . all the things we take for granted."

If the Australian team is suddenly flooded with calls, then you're redirected to another "country", such as Singapore. "That's probably what happened in this case," Small said. "The options are to keep them in a queue or handle the call as quickly as possible. We prefer not to keep customers waiting."

So why relocate to Malaysia? "Cost," Small said.

Fiona Angus



► Till we meet again, Dell.

TECH TRAINS

Sydneysiders may not know it, but there is some nifty technology under the hood of the brand new passenger trains circling the city. Computers on board the trains do everything from checking for low brake pressure to monitoring the air conditioning, doors and even surveillance cameras. There's even a GPS locator so the train can tell passengers which station they are at. Each of the new "Millennium Trains" has its own operating software, rather thoughtfully named Train Operating System, or TOS for short. Let's hope there's no bugs.

William Maher



► Bugs? Oh yeah, we've got two windscreen wipers for those.

WOULD HENDRIX APPROVE?



After 50 years it seems electric guitars are going high-tech. Gibson has figured out a way to plug a six-string directly into a computer network, so the sound is converted straight into digital for mixing and effects. The computer also recognises each instrument so that when you plug in your rock axe, it knows your preferred effects and mix. Whatever happened to the trusty Marshall amplifier?

HOT AND HASTY

Processors certainly keep getting hotter. Watching Intel show off a 2.2GHz Pentium 4 processor recently, we were amused to see the PC being run with the case off and the fan blasting away noisily. Fortunately, Intel reckons it has this cooling problem under control. Thanks to a new, futuristically named chip design called TeraHertz, Intel believes that in future years it will be possible to crank up chip speed without burning a hole in the table.



► Intel's latest research project?



SNEAKY SOFTWARE

How do you get a full version from an upgrade? Hard-core Mac fans recently explained on **Macfixit.com** how to turn a complimentary Mac OS 10.1 update CD (see *APC* November 2001, page 22) into a full working version of Apple's funky new OS. Apple legal eagles quickly killed the posting, but not before the news spread like wildfire through the Mac community. The software normally costs \$229.

FASTER, STRONGER

Shock! Horror! IBM no longer has the most powerful supercomputer in the world. The title now goes to a Compaq beastie called Terascale, which boasts a whopping 3,024 processors inside 750 servers. Terascale can churn through six trillion calculations per second and has roughly the same power as 10,000 desktop PCs. You can forget keeping it in your bedroom — it wouldn't fit.

FRENCH LETTERS

According to the hype, you're looking at what could be the world's first "digital paper". Researchers have been trying to find ways to make digital paper for years and this example comes from France. By using the special pen and ticking relevant boxes, messages can be sent as emails or to pagers and mobile phones without the need for a PC.

One for the trees.

ADRIFT ON THE WIRELESS WEB

LIVING ON A 47-FOOT CATAMARAN IN THE MIDDLE OF CAIRNS HARBOUR BRINGS OUT THE WORST IN WIRELESS NET ACCESS. CAN NEW TECHNOLOGY MAKE IT ANY BETTER?

After 23 years in the engine rooms of 150,000-tonne Norwegian cargo ships, Werner Simon retired to a life on the ocean. "We've got a comfortable boat and it's a good life living on the water." When wireless Net services came along, he joined other local "yachties" and invested in a wireless mobile connection kit, a Compaq notebook and signed up for Telstra's Wireless Internet Service. "I get instant access from wherever I am, even if I decide to shift the boat down to Gladstone or Brisbane."

But his dreams of surfing the wireless Web have since died a slow (and expensive) death. Telstra's GSM network is meant to send wireless data at up to 9,600bps, but Werner typically only gets 600bps. "The other day I loaded a 1.5MB file and it took me 45 minutes." Even with new special accelerators, which are meant to double the speed, he's noticed only a small difference. And since Telstra charges by time (with flagfall), he's racked up some staggering bills.

Telstra OnAir public affairs manager Tim Scott states bluntly that he doesn't want to hype wireless Net access. "When WAP first emerged it was described to people as 'wireless Internet' and that was what people expected," he said. "The reality is that while it's possible to surf the Web connected to your phone, it's going to be significantly slower." The next generation wireless Net is supposedly about to undo these pitfalls, but is it fabulous enough to convince hype-weary mobile users to give it a try?

The new GPRS network is meant to be five-times faster than wireless data transfer on the old GSM network and the precursor to fabled super-fast 3G services. Ross Ballantyne was one of the first to dump his GSM wireless Net service for GPRS, and hasn't looked back. As a political officer with the United Nations, he's always checking email from far flung places. "I just have all my



► Ross Ballantyne finds that GPRS makes working from overseas much easier.

email forwarded to the phone," he said as another email dropped into his inbox. "In my last posting in East Timor a lot of business went through the UN's intranet. I had a lot of people looking for information on visas and it was a hell of a lot easier to do that by email than by phone calls, which are often very hard to get through."

Yet it isn't the speed boost that makes GPRS so great. "Before, I had to waste time logging on and off, but with GPRS you can have a connection all day and you're charged one flagfall," he said. "It certainly is a lot faster, but more to the point, you only get charged for the number of bytes you send and receive so it's worked out cheaper. It's like having broadband instead of dialup. I leave it on all day, or until the phone's battery dies."

Ballantyne and Scott both point out that it's more useful for email. "I don't download anything more than a few kilobytes at a time. If I want to download I'll go to a desktop computer, but I don't have to keep going back to a PC because I get full notification when a big file arrives. So even if I can't read it, I know what it is and I know it's there," Ballantyne said. "I went to a travel agency today and asked them to just prepare and email be out a quote and itinerary. I was able to respond within 10 minutes."

Simon checked out GPRS (a Telstra salesperson even rang back to try and sell him a new phone), but isn't tempted. "Looking at it honestly, even if I switch over to the GPRS I might get faster speeds, but they're charging these crazy prices." A 1MB file costs more than \$13, although a 1KB email only costs about 24.2 cents. "Besides, I've had such a bad experience, I don't trust Telstra."

Fiona Angus

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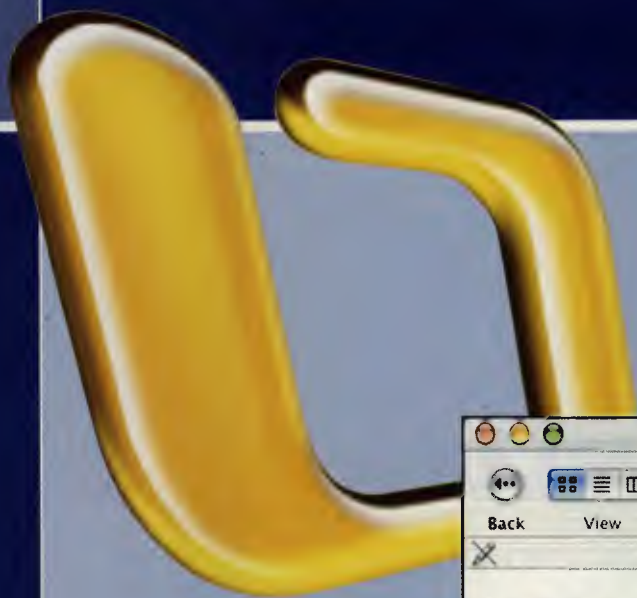
HUBS

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PERFECT MATCH

MAC OS X WOULD BE NOTHING WITHOUT GREAT APPLICATIONS. LUCKILY, THE LATEST VERSION OF MICROSOFT OFFICE IS OS X'S NEAR-PERFECT COMPANION. IT'S A SWIFT AND SUPERIOR APPLICATION SUITE DESIGNED FROM THE GROUND UP FOR MAC OS X.

By Steven Noble

Microsoft's Office X for the Mac is easily the most significant software release for OS X, and it's one that's going to drive many users of 9.x to upgrade to Apple's shiny new operating system. Office X abandons support for all pre-X versions of the Mac OS.

There's much to like in Office X, which combines Word, Excel, PowerPoint and the Entourage email/information manager program. The sweetest touches come from tapping into the core functionality of Mac OS X. You can export Office X documents directly to PDF format, and apply transparency to Excel charts and Word AutoShapes.

Protected memory also keeps your system humming along when applications freeze. Whereas a crash in Office 2001 under Mac OS X's

Office X for the Mac

Classic environment brings down the entire Classic environment and every Classic program, should an Office X program go pear-shaped, no other program is affected.

Similarly, a computer running Mac OS X wakes from sleep in less than a second, but leaves you waiting while non-native software like Office 2001 loads. Office X, however, springs into action as soon as you wake your Mac. This completely changes the way you use an iBook or PowerBook running Office X, as you don't have to think twice about shutting or opening its lid — you can confidently leave your notebook always on and ready for work.

There are some minor problems related to how the Office X interface works with Mac OS X, but none of these should affect user productivity.

For example, with Mac OS X 10.1 or later, Apple uses the right end of the top-of-screen menubar to provide indicators and controls for battery life, a dialup Internet connection, speaker volume and other important system variables. However, Word X has so many menus that they obscure every indicator but the clock on the 800 x 640 screen of a first-generation iBook. You have to toggle from Word X to another program to see how much battery life you have left.

On the surface, Office X sports almost the same feature set as Office 2001; the changes are dozens of tweaks and additions, making the suite more productive and more enjoyable to use.

Word X allows you to select more than one string of text at once (by holding the command key while making each selection). This is ideal for returning to a long document and repeatedly making the same change, such as italicising the name of every newspaper. The Find dialogue box has also been updated, making it simple to find and select identical strings of text in this way.

Word's new Click and Type feature lets you click almost anywhere in a document window (in Page Layout or Online Layout view) and start typing — Word automatically inserts the combination of line returns, tabs and left, right or centre alignments that are required to move the insert point to the desired position.

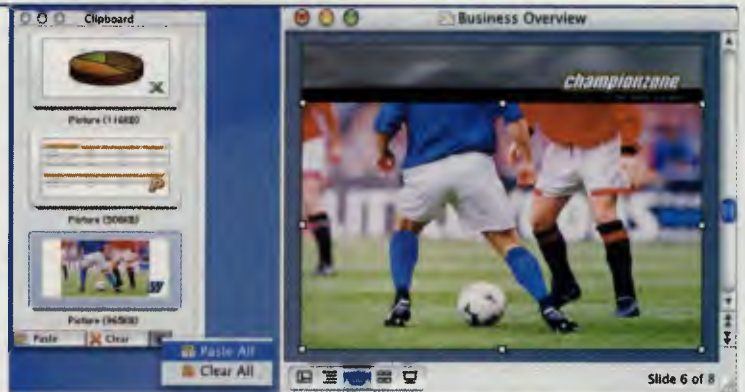
The Clear Formatting command is especially handy for getting rid of those annoying, hidden formatting settings you accidentally pick up when copying text from one document to another.

While these features aren't groundbreaking, they're practical solutions to everyday problems.

Excel X sports the winning ways of Excel 2001, including deep integration with FileMaker Pro. The few new features mostly fall under the heading of "nice touches", such as the ability to customise keyboard shortcuts assigned to Excel commands.

Entourage X gains a new window layout that makes it easier

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Verdict ■■■■



to read the calendar, and its dialog boxes have been improved so that you can always use a pop-up calendar to enter a date setting (rather than having to scroll or type each number in the mm/dd/yy format). Unfortunately, Entourage's ability to retrieve driving directions from the Web still only works for US addresses.

The ability to use QuickTime transitions in PowerPoint X is handy, but the most radical improvements — such as the use of Multiple Master pages — are already in PowerPoint 2001.

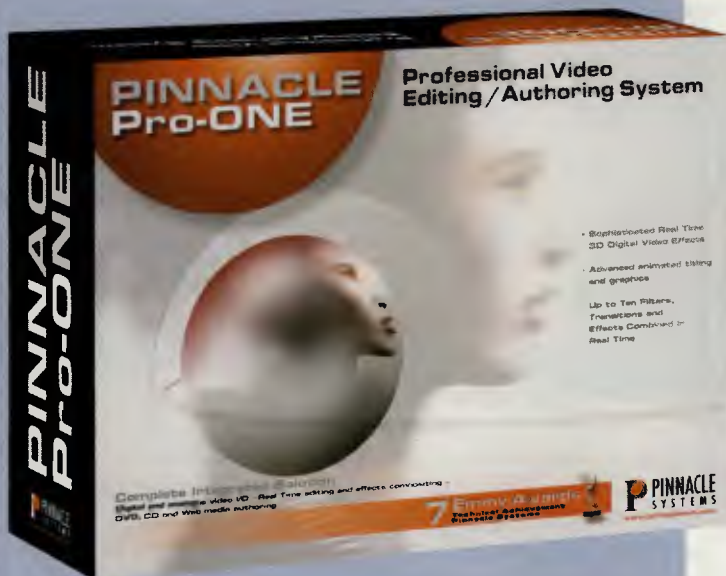
A couple of new features stretch across most or all of the Office X suite and their value varies.

For example, a Tools On The Web command in each program launches your browser to a Microsoft Web page with online storage, an encyclopaedia, a US street directory and other tools easily found elsewhere on the Net.

Support for the RealBasic development environment within Word X and Excel X will excite users of this popular visual programming tool. Luckily, you don't have to buy RealBasic to write and edit Visual Basic — you can continue to use Microsoft's Visual Basic editor for Macintosh. However, it isn't a patch on RealBasic or Microsoft's Visual Basic editor for Windows. Entourage still supports Apple's own AppleScript, which is compliant with the Open Scripting Architecture.

The standalone Office Notifications utility provides a single window with reminders of everything from Excel spreadsheets that you've flagged for follow-up to birthdays in your Entourage calendar and alerts from .NET services. It's a bit of a screen hog, so it works best when it's not overloaded with information. Unfortunately, Microsoft neglected to include a non-keyboard shortcut for instantly dismissing the reminder window when it hovers over another Office X program.

Three features missing from the first version of Office X — synchronisation with Palm handhelds, ODBC support in Excel and Hotmail support in Entourage X — will be remedied with free downloadable patches to be issued by Microsoft, although no timeframe has been announced. ■



REEL TO REAL

SAVE TIME AND GET CREATIVE WITH THE PINNACLE PRO-ONE REAL-TIME DV EDITING AND DVD AUTHORIZING CARD, WHICH FEATURES GREAT REAL-TIME FX. *By Denis Gallagher*

Pinnacle Pro-ONE is a real-time DV editing and DVD authoring card, which means less time waiting and more time being creative. It comes with Adobe Premiere 6.0, Pinnacle's Hollywood FX-RT, TitleDeko RT for video editing and Pinnacle Impression DVD-SE for DVD authoring.

As it's a full-length PCI card, you probably need a full tower PC box to accommodate it. It has two external FireWire connectors on the back, and a FireWire connector on the card itself. There's also a BlueBox desktop connection break-out box for analog (S-Video, composite and audio) connections. It has a bright red 1.8m cable that is flexible enough to allow easy placement near video sources and outputs.

At the moment, Windows Me is the newest Windows operating system supported by the Pro-ONE, however its target market is definitely Windows 2000 or XP Professional users. A beta driver for Windows 2000 and XP is available, and it worked reasonably well after some experimenting with PCI slot placement. For critical work, you should still edit in a Windows 98SE/Me environment until the updated drivers are released.

Pro-ONE supports both AVI 1.0 and OpenDML formats. The latter supports file sizes over 2GB, but has a 4GB limit in Windows 98/Me.

Pinnacle hasn't provided a workaround, so you're limited to single captures of 18 minutes until a Windows 2000 or XP driver is released that can make use of the NTFS file system.

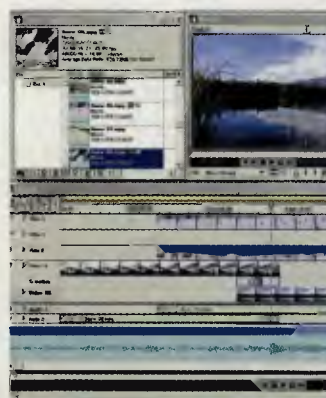
Pinnacle's DVTools feature is designed for easy logging and capturing of footage, and is far less cumbersome than Premiere's capture tools. Its Scan Tape utility scans the whole tape and creates thumbnails for each scene by analysing the timecode on your tape.

One of the best new features in DVTools is the Export to Premiere Storyboard function. This puts all the clips into Premiere while maintaining their order as created in DVTools.

The Pro-ONE shines in real-time FX. Being able to use more than one effect at a time is very attractive. The 3D effects and filters are highly configurable and offer great creative opportunities. A new Image Stabilisation tool expands and crops images to level them out and smooth the motion.

Dubs to VHS or other analog destinations are as easy as connecting a VCR or camcorder to the BlueBox and hitting Enter. Premiere renders anything that needs rendering and then automatically plays it out to the recorder.

Pro-ONE is not perfect, but it has a lot to offer serious video enthusiasts. Future driver upgrades will make it even more attractive. ■



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LET THE GAMES BEGIN

SHOULD YOU MOVE ON TO THE NEW PENTIUM 4 OR STICK WITH THE OLD P4 OR ATHLON XP? *By Matt Overington*

AMD Athlon processors have been compared to and benchmarked against Intel Pentium 4s ever since the release of the P4 late in 2000. Initially, the performance of the P4 was criticised, but the hardware platform maintained promise, and Intel continued to talk of its "scalability". There were many differences between the Pentium 4 and the Athlon (the Pentium 4's dependence on RDRAM for example), but 14 months on they are directly comparable. Although it is not the quickest RAM available for the Pentium 4 platform, we thought it fairer for the purpose of comparison to

standardise as many system components as possible, so we used DDR SDRAM instead of RDRAM in our benchmarking.

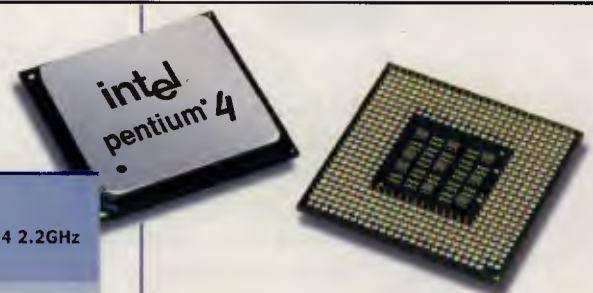
Upon its release, the Pentium 4 drew intense public criticism, although the tech-heads at Intel claimed that the Pentium 4 was more scalable than competing architectures, and that significant performance increases would continue to be seen as higher clock speeds were reached. The functional clock speed of the XP 1800+ is actually 1.53GHz, and the XP 1900+ runs at 1.60GHz, so there is only a 70MHz difference between the two chips. Between the XP 1800+ and XP 1900+, there was a performance increase of over 11% under SYSmark 2001, whereas the Intel architecture gleaned an increase of approximately 5% between processor increments, despite the fact that there is 200MHz (or 10%) difference between the 2.0GHz and 2.2GHz chips.

CRIPPLED WITHOUT RDRAM?

As the 2GHz barrier has now been surpassed, we are seeing only small leaps in performance between processor increments. The Athlon XP architecture, however, is still scaling impressively, and there looks to be life left yet in AMD's processor design. RDRAM is to the Pentium 4 what hair was to Samson, and when the RAM platform is normalised to DDR SDRAM, the P4's performance suffers against the Athlon.

WHAT DOES IT MEAN?

If you look at the benchmarking scores for the Quake 3 test at 1,280 x 1,024 at 32-bits and maximum detail, it's evident that all the frame rates are virtually the same (with less than 1% variation between the four processors). This means that, in terms of gaming performance, you are not going to notice much of a difference between the four processors, and in most other applications, the speed differences are minimal. The only clear area where the Pentium 4 comes out on top is in memory bandwidth, but unless you are doing 3D rendering or digital video editing, this is a moot point. APC expects the 2.2GHz Pentium 4 to be released onto the market at just under US\$600 per unit for bulk sales of over 1,000, but considering the AMD Athlon XP 1900+ can be yours for less than AUD\$600 each, the Intel tag carries a premium. ■



BENCHMARK RESULTS

	Athlon XP1800+	Athlon XP1900+	Pentium 4 2GHz	Pentium 4 2.2GHz
Mad Onion SYSmark				
2001 overall score	179	200	199	209
Ziff-Davis Winstone				
2001 (v1.0.2)	58	59.3	52.4	58.4
Quake 3 1,280 x 1,024				
x 32, max	117.9	118	118.4	118.7

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JUST ANOTHER REVOLUTION

IT'S A DIGITAL MUSIC PLAYER AND A PORTABLE HARD DRIVE, BUT MOST OF ALL, IT'S A MAC. *By Fiona Angus*

The iPod is what happens when Apple turns its single-minded dedication to design and marketing onto the new world of digital companions. And like the iMac before it, the iPod raises the bar for the entire PC industry.

The iPod is an experience. Its bright white face rests on top of a steel-plated 5GB hard drive weighing just 185g. At first, the unfamiliar spin-dial seems clumsy to use, but after a few circuits you're surfing through endless music playlists with automatic one-thumb control.

The large (4.1cm x 3.4cm) back-lit LCD has seven lines of clear text and a menu that runs like a pared-back version of the OS X file manager. The "tree" file structure lists songs by artist, title and playlist.

The iPod's FireWire connection is what makes it unique. Apple's high-speed data transfer interface downloads files 30 times faster than USB — my Moby album took only 10 seconds to download. The 5GB capacity can be filled with MP3s in about 10 minutes.

The iPod is designed to work with Apple's iTunes music software, and comes with the new iTunes 2 update. If you plug in the iPod, iTunes automatically transfers its entire contents. Any new music or

reorganised playlists are updated whenever you connect. This "auto-sync" function is a dream if all you want is MP3s, but it can also be a straitjacket (and it wipes all the iPod's music when plugged into another Mac).

Switch to manual mode and the iPod appears on your desktop as a portable hard drive. Using standard drag-and-drop copying, it took 21 seconds to transfer a 33.3MB file. The iPod recharges through the FireWire cord as you download (and also comes with a special power-socket recharge kit for when you're stranded without a Mac). It plays about 10 hours of continuous music and won't skip when you're on the move.

So, can PC users ever hope to access this latest Mac marvel? Well, trying to make the iPod compatible with PC won't make the most of what it can do, but check out the pipe dream at www.mediafour.com. Besides, FireWire is still pretty rare in PCs.

The iPod is still a little rough around the edges. The white faceplate feels like an iBook, but the iPod has sharp corners, and the steel plating picks up ugly smudges.

It's a stylish storage and entertainment companion, and a charming addition to the Mac family (could there be a little sibling on the way as Apple attempts to diversify?). However, the pricetag is a bit alarming. Not only is it expensive compared to rival MP3/hard drive combos, but it's half the price of an iMac. ■



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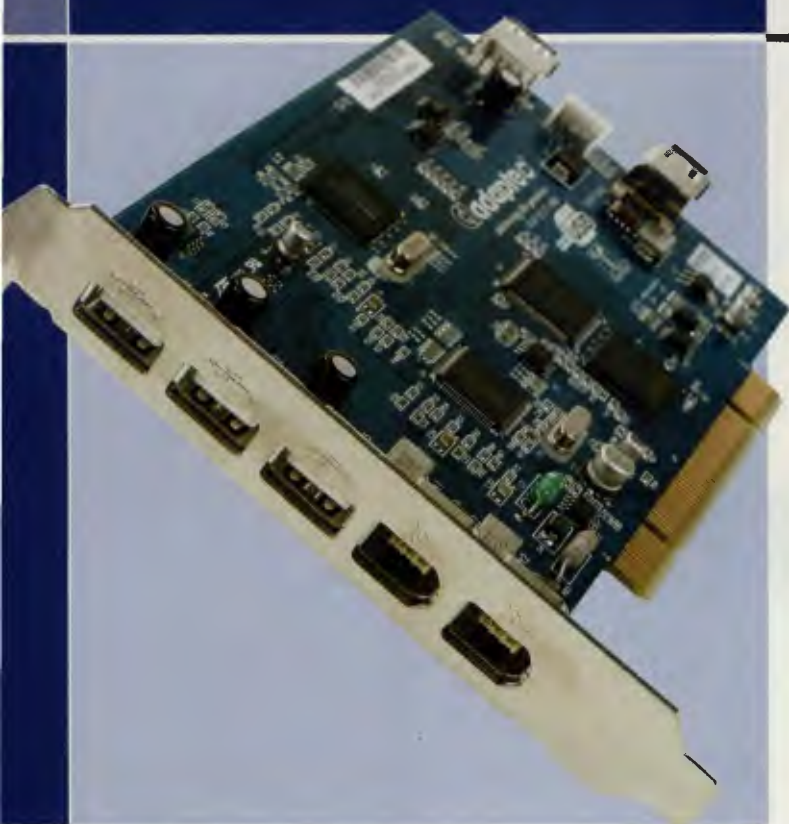
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LAST BIG THINGS

USB 2.0 HAS BEEN THE NEXT BIG THING FOR SO LONG THAT IT'S FADED INTO THE BACKGROUND. NOW, USB 2.0 DEVICES ARE APPEARING, AND IT IS SET TO SHINE. *By Darren Ellis*

We had a look at USB 2.0 and FireWire devices back in July 2001 (*APC* July 2001, page 66), and at the time, USB 2.0 products were extremely thin on the ground. Fast forward six months and two USB 2.0 devices arrive on the reviews desk simultaneously: one a removable hard drive; the other a PCI USB 2.0/FireWire adaptor.

The main advantage of USB 2.0 is its speed. Back when USB originally appeared, the only other peripheral connectivity options available were serial and parallel — which were both pedestrian compared to USB's blazing 1.5MB/s throughput. USB rapidly became the standard for connectivity, but was soon outdone by FireWire's maximum 50MB/s throughput. Now comes USB 2.0, the option that marries FireWire's speed with USB's plug-and-play abilities.

There aren't many motherboards available as yet with USB 2.0 built in, so an adaptor card is the easiest way to make it available.

From Adaptec's range of PCI USB 2.0 cards, we received the DuoConnect — a combination FireWire and USB 2.0 card.

The card features three USB 2.0 and two FireWire ports on the back, and another of each internally for connecting front-panel adaptors. It comes with a drivers disk, which should be used in preference to any Windows XP default drivers. When Microsoft was offering USB 2.0 driver support on its site, it was extremely buggy. We tested the card with a system running Windows XP Professional and the Adaptec drivers, and we never heard a peep from it. The DuoConnect also comes with Sonic MyDVD 3 software for DVD movie creation, as well as a FireWire cable.

The second USB 2.0 product was a removable hard drive from Lacie. Internally, the unit has a Seagate ST360020A disk. This is a 60GB Ultra ATA/100 disk that runs at 5,400rpm. It's not the fastest drive on the market, but it's got capacity to spare. Compared to the USB 1.1 drives tested in the *APC* September 2001 Storage Superguide (page 68), the Lacie drive was around six to seven times faster, but it wasn't quite as speedy as the external FireWire drives. We copied 1.72GB in just under six minutes, compared to around five minutes for the USB 1.1 drives to copy a mere 238MB. Obviously, a faster drive, say 7,200rpm, would result in faster transfers, but then you'd lose capacity.

Both products are Mac and Windows compatible. ■



Adaptec DuoConnect

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Price \$329

Verdict ■■■■■



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S600

Conventional

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Sony Cyber-shot DSC-P5

POWERFULLY SMALL



Photos hardly do it justice. It's not until you hold the Cyber-shot DSC-P5 in your hands that you realise just how small and compact this digital camera is. Its metallic silver finish is sculpted to an ergonomic form that makes it a delight to use despite its tiny body.

Its mode dial is uncluttered and

offers only five main functions, leaving the rest of its features to its onscreen menu system. This is accessed simply through a menu button and is navigable via a point-of-view hat, which doubles as a toggle switch for various flash, macro and timer functions. The result is a friendlier, less intimidating control system than most digital cameras on the market.

The 1.5in colour LCD is sharp and sufficiently bright to use in most conditions, although an optical viewfinder is also implanted into the P5. The 3x optical zoom lens retracts neatly when not in use, fitting flush with the camera body. With a 3.2-megapixel CCD, the P5 is capable of recording images at resolutions of up

to 2,048 x 1,536, though with the ludicrously low-capacity 8MB MemoryStick supplied, you'd only be getting five shots. Another \$169 will get you a 64MB MemoryStick, which I would recommend as minimum for a camera like this. There's also a 3:2 aspect mode in the highest resolution.

The P5 can also record video footage in MPEG-1 format at three resolution settings. Again, the limitation here is the 8MB of memory, which won't even allow you to begin recording at the 320 x 240 High Quality setting.

A "Twilight" mode lets you record subjects against dark backgrounds while retaining details in the surroundings without burning out the foreground. It's an automated slow shutter mode that comes in handy more often than you might think. There's also an email mode that records a second, smaller copy of your shot, making it more suitable for online use.

Designed primarily for those who simply want to point and shoot without having to mess around with a lot of settings, the P5 handles itself admirably. Its rechargeable InfoLITHIUM battery is an absolute gem, and displays remaining charge in minutes. More avid enthusiasts, however, may find the shooting functions a little limited.

Simon Tsang

Olympus Camedia C-40 Zoom

MIXED MESSAGES



The world's smallest and lightest 4-megapixel camera, the new Camedia C-40 looks like a regular 35mm compact camera. That is, until you notice its chunky, oddly proportioned

"tablet-type body" and 1.5in TFT colour LCD

screen. The design is cute, and coupled with its diminutive size, belies an otherwise very capable digital camera with a serious set of features.

The C-40 powers up when the lens cover is slid open. When it is nudged closed, the lens retracts automatically. It feels a little awkward trying to force the cover shut when the lens is still protruding from the body, but the system provides good protection. The functions aren't as easy to operate as the Sony Cyber-shot DSC-P5 (reviewed above), but they're readily accessible once you become accustomed to the menu conventions.

The C-40 has far more features to accommodate in its mode dial and onscreen menu system than the Sony. And at only \$100 more, it leaves the Cyber-shot looking rather overpriced. The C-40's mode dial crams in 10 functions, ranging from

presets to a new "My Mode" setting for storing frequently used custom camera settings.

There's a full manual mode as well as aperture and shutter priority, and Motion-JPEG video recording. Auto bracketing, night shooting and infra-red remote are also standard, but what's with the startup and shutdown chimes? They're annoying enough in Windows without having to put up with them on a camera as well. Thankfully, they can be turned off. Another novelty feature is the ability to change the accompanying screens when you switch the camera on and off.

The C-40 is an impressive camera in most respects, and importantly, the image quality is among the best of 4-megapixel models. However, its marketing is a little mixed and it's difficult to understand which audience Olympus is pitching it to. On one hand, the feature set suits enthusiasts, but on the other, the case design says "happy-snapper special". Occasional holiday snappers are unlikely to go for something this high-end, yet avid photographers will want something with a bigger lens and a case that looks half-serious.

Simon Tsang

Contact Sony

Phone 1300 137 669

Online www.sony.com.au

Price \$1,699

Verdict ■■■■

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(Photographic)

Phone (02) 9935 6600

Online www.gunz.com.au

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Verdict ■■■■

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Ricoh Caplio RR1

THE PRETENDER

With more megapixels and extra zoom, why isn't the new Caplio as good as the original?

The Caplio RR10 first grabbed APC's imagination late last year (see APC November 2001, page 34) with a first-rate mix of features and value. So when we heard Ricoh was releasing another Caplio with twice the resolution, we couldn't wait to get our hands on it.

Imagine the letdown when a camera arrived bearing the Caplio name, but looking like the old Ricoh RDC-7. The Caplio RR1 did partially redeem itself with a series of striking 4.1-megapixel photos, boosted by a 3x optical (and 3.6 digital) zoom.

The RR1's best and worst feature is its unusual shape. Ricoh boasts that this is the thinnest 4-megapixel camera around, but at 13.5cm long and 270g, it's still quite a handful. The 2in swivel screen allows for creative and versatile shooting for experienced (or adventurous) digital photographers. The top is covered in no less than 16 buttons (not including the seven-point mode dial) and trying to hit

the shutter almost led to a "drop" test. Most of the excess buttons are tucked under the LCD and are covered with a sheet of flexible plastic.

The onscreen menu doesn't do much to resolve the confusion (there's even a spelling mistake). Using the extra black-and-white LCD and viewfinder helps with mastering the four image quality settings, but having to peer through a viewfinder on the "wrong" side of the lens is an eye-crossing experience.

Once you've conquered the onscreen menu, you can enjoy superb instant playback of slideshows and short video clips with sound (288 x 216 in AVI format with no zoom). A "split screen" feature takes shots side-by-side and there's even an efficient cropping tool. Keep up to 44 top-quality images (2,272 x 1,704) on the 64MB removable SmartMedia card, alongside the 8MB of inbuilt memory. Moving photos to your PC is efficient, but the Ricoh software is rather lacking in features. Charging the battery is also a chore — it has to be removed and slotted into a large docking station.

The next model in the range will need finetuning if Caplio is to become a name photographers place their faith in.

Fiona Angus



Contact Ricoh
Phone 1300 363 741
Online
www.ricoh.com.au
Price \$1,799
Verdict ■■■

D-Link DI-713P Wireless Gateway

SHARE IT

The 713P has got it all. Not only is it a broadband router for sharing an Internet connection across a network, it also has a built-in 802.11b wireless access point, print server, serial port to attach standard PSTN modems and of course, rudimentary firewall protection. Last month's round-up of Internet sharing routers (see APC, January, page 40) compared products which carry these features, but none had them all in the one box.

The 713P is great for small to medium-sized businesses that require a combination of wired and wireless in their network connectivity.

The wired component consists of a three-port 10/100Mbit/s Ethernet switch, the connectors for which are located along the rear panel of the box. There's also a fourth port for linking to a broadband modem. Printers can be served through the 713P's 25-pin parallel port — all that's required is the installation of the supplied Print Server software on each client machine.

Settings can be changed through a Web interface simply by typing the router's IP address into your browser. Being wireless, it has 64 and 128-bit WEP (Wired Equivalent Privacy) encryption for security, which is also configured through its Web-browser interface.

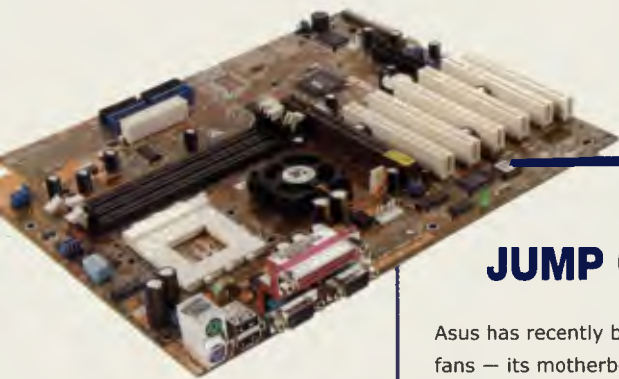
Unfortunately, the 713P doesn't come ready for Telstra BigPond Advance Cable users. Due to the different sign-in method Telstra forces on its customers (including a "Launchpad" utility installed on the connecting PC), the 713P cannot directly connect to the BPA Cable service. A workaround using a third-party utility called "BPALogin" is available, but it means having at least one machine always switched on, acting as the gateway. Most similar devices face this problem, and have little choice but to wait until Telstra gets its act together and grows out of its control-freak phase. Might be a long wait.

As the Swiss Army knife of routers however, the 713P has plenty of merit. Its versatility makes it a must-have networking product if you're considering wireless.

Simon Tsang



Contact D-Link
Phone 1800 177 100
Online
www.dlink.com.au
Price \$898
Verdict ■■■



ASUS A7V266-E

JUMP ON BOARD

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Online www.achieva.com.au
Phone (02) 9742 3288
Price \$310
Verdict ■■■

Asus has recently become a favourite for AMD fans — its motherboards have a reputation for being robust and full-featured, and for allowing tweekers to push their CPUs to the limit. The latest Asus motherboard, the A7V266-E, comes stocked with VIA's awesome KT266A chipset.

The A7V has the same chipset as the MSI's impressive motherboard, the K7T266 Pro2-RU (see *APC* December 2001, page 36), so the performance of each is similar. The A7V266-E doesn't look quite as slick as MSI's crimson beast, but it has one or two tricks up its sleeve.

In tests, we found minimal differences between the two across all benchmarks. The A7V board occasionally lagged a little behind the K7T, but not by more than 1% or 2%.

However, like some previous Asus models, the A7V offers something a bit special: jumpered and jumperless overclocking. This means that if you prefer to do your overclocking the

old-fashioned way, you'll be pleased with the numerous jumpers and dip-switches that control everything from CPU and FSB multipliers to voltages. By the same token, we found the plethora of jumperless overclocking features in the BIOS to be more than adequate.

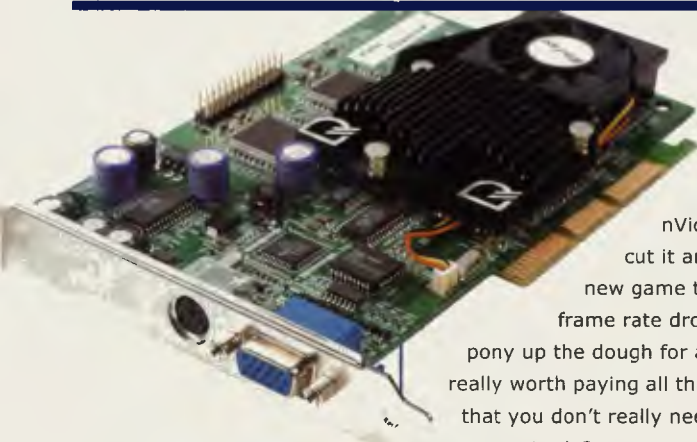
Asus definitely has the edge in terms of CPU compatibility — the new Duron 1.2GHz refused to work in the K7T, but booted without a hitch in the A7V.

Apart from the slightly inconvenient placement of the floppy port near the PCI slots and the close proximity of RAM slots to the CPU socket, the board is well laid out. The A7V266-E's main drawback, however, is price. Compared to the K7T, it's a little expensive. A plain A7V (sans audio and RAID) costs around \$310 — you can get MSI's basic K7T266 Pro2 (with onboard audio) for well under this price.

The A7V266-E has some great features that make it a worthwhile upgrade, but you might be wise to wait for the price to come down.

Daniel Gardiner

Leadtek WinFast Titanium TH GeForce2



CARD GAMES

Gaming on a budget is tough. That aging nVidia TNT2 just doesn't cut it anymore; with every new game that comes out, the frame rate drops. Sure, you could pony up the dough for a GeForce3, but is it really worth paying all that cash for something that you don't really need yet? What's a gamer to do?

Well, Leadtek is hoping you'll buy its new GeForce2 Titanium (GF2 Ti).

Based on yet another revision of nVidia's GeForce2 chip, the Titanium is the new card for cost-conscious gamers. The most significant differences between nVidia's GeForce2 chips (GTS, Pro, Ultra, MX and the new Titanium) are core clock and RAM speed. These two measures give a good indication of a card's overall performance. The Titanium sits just below the flagship GF2 Ultra in this respect: it's clocked

at 250/400MHz (core/RAM), while the Ultra is clocked at 250/460MHz. Although not the best in the range, it has enough grunt to provide good-looking graphics and respectable frame-rates for most current games.

GeForce2 GTS owners looking to upgrade will gain a nice performance boost too — on average, our benchmarks showed the GeForce2 Titanium to be around 30% faster than its GTS counterpart. The WinFast Titanium TH is definitely one of the best available — it comes with decent software, a fairly robust heatsink (handy for a little overclocking), and at \$350, it's a lot cheaper than other comparable products.

However, the price is still a little hard to take. If it were \$100 cheaper, it would be a bargain. GeForce3 Ti200s are almost 50% faster, but cost only \$450. Save your pennies for a GeForce3 or Radeon 7500.

Daniel Gardiner

Contact Rectron
Phone (03) 9561 6166
Online www.leadtek.com
Price \$350
Verdict ■■■

Pinnacle Express DV

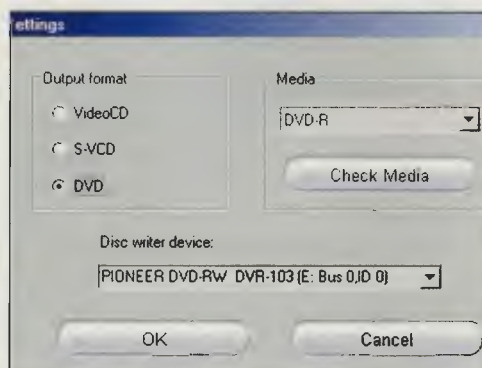
MOVIE MAGIC

Pinnacle Express DV helps you create a DVD or CD in three easy steps. First, you capture the video from a DV camcorder or an AVI movie file on your computer. The FireWire card included in the kit allows you to quickly move video from your camcorder to the computer. Next, you choose from the menu templates on offer. You then preview the DVD before writing, burn your project to a CD-R/RW or DVD-R/RW, and you're done!

Express DV allows you to import digital pictures and audio to create multimedia slideshows or add backgrounds to your menus. A variety of menu layouts and backgrounds are included, and there are intuitive wizards for most movie-making tasks.

Videos can also be written onto CD-R/RW discs in the VCD or Super-VCD format, which can be read by most home DVD players.

Although Express DV can perform some basic editing tasks, it's not a true video editing package. If you want to add transitions, titles and effects to your video, you need an additional package.



Express DV is worth a look if you plan to create movies you can play on your home DVD player or PC-based DVD-ROM. A software-only version (without FireWire card) is also available for around \$100 less.

Denis Gallagher

Contact Pineapplehead

Phone (03) 9852 7444

Online www.pinnaclesys.com

Price \$249

Verdict ■■■■

Attention notebook owners! That 1GB Microdrive not big enough any more? Toshiba has the answer: a 2GB PC Card. The device comes without drivers and uses a standard IDE controller (like most hard drives). All you need to do is plug it in and you're away! It works with Windows 9x up and most versions of Mac OS, and retails for \$549.

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Ulead DVD MovieFactory

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DVD MovieFactory outputs video to DVD, S-VCD and VCD and works directly with the latest DVD-R/RW/+RW recorders, as well as with most CD-R/RW devices, without the need for additional burning software. You can preview the movie in real time before recording to ensure that it plays as expected before committing the file to CD or DVD.

Included in MovieFactory is Video ToolBox, a handy application that allows you to capture, trim and create DVD-compliant files. However, it's a good idea to use a dedicated video editing program



as well if you plan to do a lot of work on your video footage before writing it to DVD or CD.

By employing an intuitive wizard-style authoring workflow, DVD MovieFactory makes placing home movies onto DVD and CD media a snap.

Denis Gallagher

Contact Pineapplehead

Phone (03) 9852 7444

Online www.asiapac.ulead.com

Price \$135

Verdict ■■■■

Ulead PhotoImpact 7

Ulead PhotoImpact is a budget-priced, yet full-featured competitor to Adobe Photoshop. The most significant updates in this edition are the slightly improved user interface, and the Windows XP support. Although PhotoImpact is significantly cheaper than its competitors (it's only \$259), it's harder to use and contains fewer functions than Photoshop or CorelDRAW. In general, it's better suited to enthusiasts than to professionals. www.ulead.com



Ulead Cool 3D



Cool 3D (\$199) is a titling and animation program for creating Web graphics, presentations and video overlay. You can output to most popular graphics formats and many video formats, including GIF animation, RealVideo, Flash, AVI and QuickTime. It allows you to add fluid motion to text, and provides a large number of predefined 3D shapes to speed up object creation, including tori, cubes, cones and "metaballs". New with version 3.5 is the ability to import Adobe Illustrator 8 files and then convert them to 3D images.

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www.einfosolutions.com

Microsoft Plus! for Windows XP

NONPLUSSED

Microsoft Plus add-on packs have been around since the release of Windows 95, usually offering fairly dubious features and extras not included in the Windows operating system. So, is Plus for XP any different?

The latest version is broken down into four main parts — games, themes, screensavers and digital media. Games and themes are fairly standard. As in previous versions of Plus, the three games are slightly more sophisticated than the Windows defaults. They're enjoyable enough, but not really compelling — and they're still outclassed by classics like solitaire and minesweeper.

The themes do a great job of instantly sprucing up your desktop background, default icons and mouse cursors, but you can get plenty of this stuff on the Web for free.

The digital media section looks like the most interesting and varied part of the kit — until you realise that five out of its seven features are



just enhancements or plug-ins for Windows Media Player. But none of these features are crucial.

Overall, this is a lightweight add-on. Some of its features are handy, but you probably won't find yourself using them enough to warrant the cost.

Daniel Gardiner

Contact Microsoft

Phone 13 20 58

Online www.microsoft.com/windows/plus

Price \$82

Verdict ■■■

Quicken Personal Plus 2002

PULSE QUICKENING

Quicken Personal Plus is a financial management tool designed to help you get the most out of your money. It monitors banking, spending and saving, investing, taxes, planning, loans and mortgages, and wealth management.

A share-tracker is also included, and provided you have an Internet connection, it can access online share trading sites and update the value of your portfolio. You can even set the software to sound an alarm in case your net wealth drops below a specified level at any given time.

Minor updates include advanced tracking for employee stock options and market index. There is also a Capital Gains Estimator, so you can calculate any potential capital gains tax.

Obviously geared towards someone that wants to maximise their income, a variety of useful planners are included to help track and modify spending and saving schemes. You can create a yearly budget based on your spending patterns from the previous year, and a useful



debt reduction planner helps you analyse where your money is going and how to get out of debt more quickly. A Save More planner is also included.

Matt Overington

Contact Quicken

Phone 1300 655 925

Online www.quicken.com.au

Price \$129.95

Verdict ■■■■

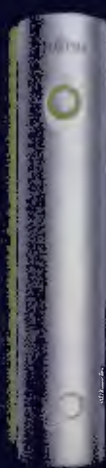
THE POSSIBILITIES ARE INFINITE

FUJITSU

The World's Lightest Notebook[†]



The mobile colour scanner makes a great companion with the handheld sized LifeBook P-1030. The mobile colour scanner is sold separately.



Personal. LifeBook P-1030

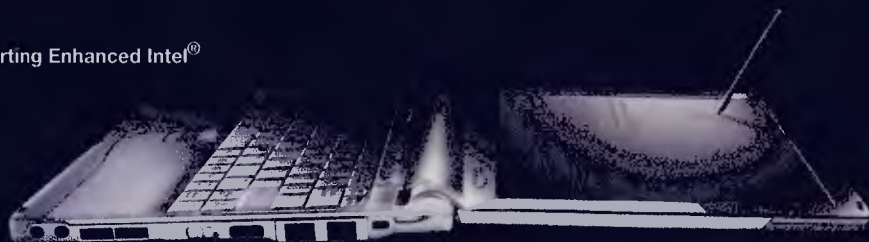
- Lightest Notebook In the World[†] (880g)
- Transmeta Crusoe™ TM5500 (700MHz)
- Built-in LAN/Modem/External Display Connector
- Ultra-long Battery Life
- One-touch Email Alert Button
- Designed for Microsoft® Windows® XP



[†] Lightest Windows® PC in the world with Crusoe™ processor (source: Fujitsu, Oct '01)

Brilliant. LifeBook B-2562

- Mobile Intel® Pentium® III processor 700MHz - M supporting Enhanced Intel® SpeedStep™ technology (Low Voltage)
- 10.4" XGA Rotating Touch Screen
- Programmable Security Feature
- Built-in LAN & Modem
- Ultra-durable Magnesium Alloy Casing
- Wireless Connectivity with Bluetooth™ PC Card
- Designed for Microsoft® Windows® XP



The rotational touch screen allows smooth delivery of one-to-one presentations.

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FEEDBACK LOOP



INTEL VERSUS ATHLON

The way APC harps on about how good the Pentium 4 processor is leads me to think that you are seriously biased towards Intel processors. The fact is that an AMD Athlon outperforms a higher-clocked Pentium 4 in almost every situation other than game frame rates. An article in your August 2001 issue (page 24) comparing the Athlon 1.4 with the Pentium 1.7 clearly showed that this is the case. Despite this, the inferior Pentium processor is talked up in an incredibly biased way.

Kevin Lyall
Mowbray, Tas

We bend over backwards to give you an independent and balanced view of the best chips on the market. APC has consistently found AMD chips provide excellent value and performance. For example, APC gave the AMD Athlon XP 1800+ chip a Special Achievement prize in our annual Technology Awards in December (see APC December 2001, page 80).

DOUBLE STANDARDS

It never ceases to amaze me how the big music companies complain about piracy. I'm sure that, like me, most Internet music downloaders would have

no problem with paying a reasonable subscription fee for downloading music. But companies seem to have no idea about what's at stake. Are they talking to software makers regarding their easily available CD-ripping software? The latest version of Windows Media Player has CD ripping tools which encourage people to copy songs to their hard drives. If this isn't piracy, what is? Surely there is a case against software makers for giving people easy access to piracy in the first place. Then again, it's strange that during the Napster war, one of the biggest music companies backing the push to shut Napster down was Sony — which also makes CD burners and portable CD players with CD copying capabilities!

Jeff Jaekl
Rosedale, Qld

R.E.S.P.E.C.T.

No offence to Jarrod Hassell and his letter regarding friendly tech support (APC December, page 44), but I'm another techie with a bit of experience in the industry and I find it rather disturbing when I ring an ISP helpdesk only to be treated as a twit. I was introduced to computers and BASIC programming at school in 1978 so it's pointless to ask me to recheck my settings, reboot or try a different POP, when I can see that one of their routers is down. I know that many people who ring ISP helpdesks are in the beginner class, but I feel quite put down when I ring to say one of their routers is down only to be told that it isn't and I should check that my connection is configured correctly. I would like to see helpdesk staff with greater technical knowledge, rather than just phone jockies with a

LETTER OF THE MONTH:

THE ISP BLUES

I read your article regarding DingoBlue's deteriorating service (APC December 2001, page 21) with great interest. Living on the Central Coast, ADSL is not available, so we had to choose a dialup service — DingoBlue. What was an exceptional service has now sunk to abysmal depths. I very rarely require its support service, but when I can't establish a connection, naturally I seek an answer. Being kept on hold for 45 minutes is totally unacceptable, but it's made even worse by infuriating messages like: "Why don't you contact us online at www.dingoblue.net.au." Newsflash DingoBlue: I'm calling because I can't — or rather YOU can't — establish a reliable connection. My wife needs a reliable connection for assignments she receives from Macquarie University and I need one for access to the Web pages I manage. I'm amazed I have been able to complete this email.

Garth Andries
Kariong, NSW

Update: Garth has since written to APC and says: "I'm happy to report that DingoBlue has improved enormously since my first complaint. Even better news is we're finally getting ADSL in my area!"

GARTH HAS SHOWN US THERE'S hope for ISP-weary readers if we keep pushing for better service, so we chose his missive as Letter of the Month. His prize is a copy of Microsoft Office XP, with the latest 2002 versions of Word, Excel, Outlook, PowerPoint and Access.



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database of common problems in front of them. Customers of these ISPs pay hard-earned money for their connections and should have access to helpdesk staff who can actually help them. Staff should also address customers as technical "equals", without sounding superior to those with less technical background.

Anthony Ritchie
Mangerton, NSW

I WANT MY DVD

I was looking through my collection of APC CDs the other day and realised that it's been more than a year since APC released its first and only DVD. It was filled with so much stuff, it took me a good couple of days to get through it all. So, when are we going to see another one?

David Angelovich
Wandana Heights, Vic

Stay tuned David, we're working on it!

THE PROFESSIONAL

Like "friendly techie" Jarrod Hassell (APC December 2001, page 44), I also work in a tech support role and have a few hints for dialup subscribers. First, please bear in mind that when you call a tech support person, you're (usually) talking to a highly trained professional. We do our best to help, however, we have to work under a wide range of constraints and rules. In the end, we can only make your existing setup work to its best potential, so don't expect an analog modem to run like a broadband link. A customer I dealt with became irate when I explained we would have to slow his modem down to make it stable and eliminate his dropout problems. Between outbursts, he said he was a hardcore online gamer and I would be crippling his performance. He refused to believe that there wasn't some magic switch I could turn on to make things run faster, and accused me of deliberately slowing his speed down to make him pay more. If

fast data speeds are really that important to you, get broadband.

Scott Pankhurst
West End, Qld

REDEMPTION

I've been reading with interest the Watchdog section, most recently, the "What's The Deal?" (APC December 2001, page 40) article about online shopping disasters. I've just had my first experience with an etailer and was more than satisfied with the level of service. I just wanted to let others know that there are some quality etailers out there if you know where to look. I ordered a \$132 part from Aus PC Market (www.auspcmarket.com.au) on a Monday afternoon. It was the first time I've visited the site and it was well laid out, easy to navigate and purchasing was a breeze. On Wednesday (of the same week!), my part arrived — a day sooner than their confirmation email said it would. I will definitely be conducting business with this firm again.

Kent Muller
Greenslopes, Qld

IN THE LOOP

The weekly APC Update email is an excellent idea. Now I can keep on top of late-breaking IT news before the next edition hits the shops. As a person on a disability support pension, sometimes I can't afford a copy of APC, but at least now I can still get some news. I really love APC and read it from cover to cover whenever I can afford it.

Stuart Leamer
Winchelsea, Vic

DROP THE BURDEN

I noticed you featured a reasonable solution to the ever-present problem we notebook users face: how to effectively carry our machines around (APC December 2001, page 52). I'm a high school student and my notebook cops a fair amount of mistreatment. My solution has been to

We welcome comments and suggestions. Send correspondence to:

APC Readers' Say, PO Box 4088,
Sydney NSW 1028, or email
epinions@apcmag.com.

Letters can also be submitted online at
apcmag.com. All correspondence becomes
the property of APC and is subject to editing.

HOW TO CONTACT US

protect it in a rigid aluminium case, but the downside is that it's cumbersome and the notebook uses up most of my bag space. The STM carry backpack sounds promising, but alas, without a rigid metal frame it's just not good enough for me. The padding simply doesn't cut it (although the design is roughly right, with the notebook fitting in a separate pocket, something my current solution can't do). My question to APC and its readers is whether or not anyone has encountered what I would consider "the Ultimate" in notebook portability — a light backpack with a special rigid metal compartment?

Will Rouesnel
Lane Cove, NSW

CLINGING TO THE CORD

I awaited the arrival of the Logitech combination cordless and optical mouse with bated breath after reading APC's review (APC October 2001, page 36 and APC June 2001, page 46). Then, when it arrived, I chose not to buy it. Why? I'm really unimpressed with where Logitech has positioned the right mouse button. I find I keep missing it and hitting the space between the mouse button and the edge of the mouse. Until now, I've thought very highly of every Logitech mouse ever made. In fact, I haven't used a non-Logitech mouse for more than four years. So for the time being, I've been forced to continue using my (corded) Logitech optical for my laptop and cordless (but non-optical) for my desktop where I have more control over how clean the surface is. Please Logitech, design a better cordless/optical mouse soon.

Anthony Abrami
Snug, Tas

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- 256MB SDRAM, max. 256MB
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GHOSTLY NOISES

PEOPLE ARE USUALLY SO HAPPY WITH DELL'S PRODUCTS AND SERVICE, THE WORLD'S TOP SELLING PC COMPANY HARDLY KNEW WHAT TO DO WHEN ONE APC READER ASKED FOR A REFUND ON A MYSTERIOUSLY FAULTY NOTEBOOK.

Dear APC,

My Dell is driving me insane! Since the day I bought my Dell Inspiron 4000 laptop it's made a constant buzzing and crackling noise. When I'm downloading from the Net, it escalates into an unbearable squeal. I called Dell support and, when the service guy arrived the next day, he described the sound as "like a BBQ inside a laptop". Over two visits he replaced the motherboard, CPU, palmrest, hard drive and network card. When nothing worked, he took my laptop away for three days to work on it, but when he returned on the third visit, he said that he couldn't do anything more about it and suggested I call Dell for a refund. When I rang Dell, they told me this was "normal operational noise" and refused to do anything. I don't call a computer that buzzes all the time "normal".

Mark Knowles
Davidson, Sydney

This was the first bad word Watchdog had heard against Dell for about two-and-a-half years. Was Dell's famous direct marketing model still as customer friendly? One call to Dell and Watchdog came face-to-face with Dell's breathtaking customer service. Corporate communications director Rob Small was instantly on Mark's case. "Total customer satisfaction is what we obsess about and if Mark's machine, for some

reason, cannot be fixed, we will either replace it or give him a refund," he responded (the same day).

Rob also sent Mark an email promising to have technical support look at his notebook — again. "I know it may sound shallow now, but we really are very concerned that you are not happy." Rob reassured Watchdog that he definitely wasn't aware of any manufacturing faults that would cause a screaming PC, and no, they didn't consider it "normal".

But when Dell's technicians tried to replicate the noise, they drew only a low buzzing, rather than the hair-raising shriek Mark heard late at night. "Please know that we have already replaced every single component inside his machine, yet it continues to make a strange noise. This needs to be looked into," Rob said.

The mystery of the ghost in the PC came to the attention of Robert Vinokurov, the Asia-Pacific product manager for the Inspiron family of notebooks. Mark was keen to prove that the notebook was truly "possessed", so he agreed to visit Dell's headquarters in Sydney's northern suburbs. Together they poked and prodded the notebook and listened closely to the low noise emanating from within. Mark wasn't sure Robert Vinokurov was entirely convinced, so he set up a



makeshift network and, sure enough, a mysterious noise filled the room.

Rob Small offered Mark a new Dell, but Mark was adamant he wanted his money back to buy a Toshiba Satellite 3000. "We're sorry to lose Mark as a customer," Rob said. "It's still a mystery as to what's wrong with it. We couldn't replicate the problem on our side and it was operating perfectly except for the noise. It may be sent back to the US to be looked at."

But a simple refund turned out to be something of a challenge for Dell, and more frustration for Mark. "My only real complaint is how long it's taking," said an exasperated Mark. It took a full month from the time Watchdog contacted Dell for Mark to receive a refund. "It made me wonder if they had a proper refund procedure in place."

After the refund was approved, Dell faxed Mark a detailed form which he filled out and faxed back. The refund request was sent to Dell's Singapore offices, which then sent out a cheque. A courier came and picked up the notebook and only then was the money returned.

"He has a valid concern," Rob admitted. "The truth is, we don't use the refund procedure very often!" ■

CONTACT US

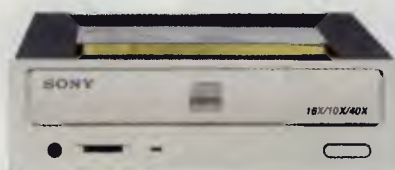
WE WANT TO KNOW HOW IT companies are really treating you. Write to: watchdog@acpmag.com or PO Box 4088, Sydney NSW 1028. Include your full contact details and any product information. All correspondence becomes the property of APC and is subject to editing.

The hottest CD burners are from Sony.



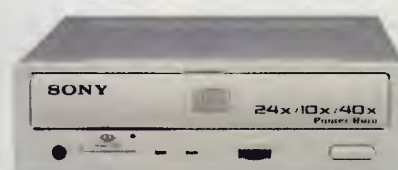
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orientation
- Performance Plug-N-Play
compatible iLink Interface
- Large 4MB Buffer



CRX161182U

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40X Playback
- Internal model designed for
desktop & tower PCs
- High Quality Optics
- Fast Digital Audio Extraction
- Operates in vertical or horizontal
orientation
- Compatible with all main CD
formats and writing methods
- Buffer-under-run protection



CRX175MCI

- 24X Writing, 10X Rewriting
40X Playback
- Internal model designed for desktop
& tower PCs
- High Quality Optics
- Fast Digital Audio Extraction
- Operates in vertical or horizontal
orientation
- Unique Memory Stick operation
- Latest Sony Buffer-under-run
technology



Also known as IEEE1394, this super-high performance interface offers transfer rates up to 400Mb/s. This exceptional speed makes it great for time sensitive audio and video recordings. With Plug-N-Play operation, it's great for laptops or a shared office environment.

Power-Burn.

Developed by Sony, this technology ensures high fidelity recording and consistent maximum performance. While preventing buffer-under-run, PowerBurn™ optimises the drive operation to make the best use of the PC, media and environmental conditions.



Imagine having two drives in one... a high speed burner/player plus a digital media reader/writer. Imagine taking pictures from your camera and copying straight to CD. Imagine a storage medium that fits in your wallet and holds up to 128MB of data, audio, still images or video... imagine no more.



Sony produces a wide range of quality optical media. We offer CD-R & RW disks to support the highest recording speeds, 8 & 12cm CDs, data and audio disks, 74 and 80min versions. They come preformatted, printable, and in crystal cases.



HAND

FROM YOUR POCKET
TO YOUR PALM

BY DAVID FLYNN
SIMON TSANG
AND MATT OVERINGTON

Cancel
On/Off

helds



CALCULATORS, ELECTRONIC ORGANISERS, PERSONAL

digital assistants (PDAs), and now handhelds — such has been the rapid progression of technology over the past decade. From being mere single-task, standalone repositories for addresses and appointments, today's "organiser" has become a much more complex beast; hence the need for an all-encompassing term such as "handhelds".

There is a confusing array of handheld PCs available, so we decided to take a look at these pocket-sized wonders from every angle and help you determine the most suitable device for your needs. But first, a little background.

IN THE BEGINNING . . .

When Palm first appeared on the world scene as the US Robotics PalmPilot 1000 in March 1996, it redefined the entire market for electronic organisers. Demonstrating just the right blend of size, weight, features, ergonomics and price, it made all existing products in the sector look positively prehistoric. The PalmPilot's purpose-designed operating system favoured simplicity over features and didn't require over-the-top hardware to run — an ethos that Palm carries to this day.

Its combination of a small, light form factor and simple-to-use software was unique, and swung votes in its favour. When the device was docked in its cradle, users could synchronise, or "HotSync", their data between the PalmPilot and a PC at the push of a button. It wasn't long before third-party software conduits became available that enabled HotSyncing with popular Personal Information Managers (PIMs) such as Lotus Organiser and Microsoft Outlook.

The availability of software applications is the key to any platform's success, and Palm owes a great deal of its popularity

to the developer community, which ensured a great variety of software was available for end users. If the Palm didn't do what you wanted it to out of the box, chances were you could download something for it that would. An explosion of hardware add-ons and devices expanding the Palm's capabilities also ensured the platform was here to stay.

Palm expanded beyond the "one man band" when other products licensed its OS and delivered alternative solutions for the platform. Although not currently available in Australia, Sony's Clié is one Palm OS-based handheld that has become a huge hit and incorporates Sony's MemoryStick technology. Most notably, the creators of the original Palm moved on and developed competing Handspring devices which had an emphasis on modularity via their own proprietary Springboard expansion slots.

As the Apple of handhelds, Palm has also been popularised into mainstream culture and consciousness, appearing in films and even having a "Hands-free" line of pants designed for it by Levi's.

Microsoft quickly saw the potential of the market that Palm had opened up, and it wanted a slice too — no, actually it wanted the whole cake. Soon we had Windows CE, which left Microsoft scratching its head and wondering why no-one wanted a bloated, confusing, unstable and sluggish platform that required substantial processing grunt to run. It was barely excusable on the desktop, and unforgivable in a handheld. It was the opposite of everything that had made Palm a roaring success. Not surprisingly, it flopped.

THAT WAS THEN, THIS IS NOW

With the release of Pocket PC 2002 on 6 September 2001, however, Microsoft once again demonstrated exactly why it's the



richest company in the world: it knows how to copy a good thing. Microsoft had to pull off some real magic with this product (appropriately codenamed Merlin) if it was to overcome the negative perceptions of its previous attempts.

Mimicking many of Palm's more elegant features, such as the Graffiti input method, the Pocket PC 2002 looks to be a far more coherent operating system than previous versions, and borrows much of the look and feel established in Windows XP. As a result, Pocket PC is now a far more compelling platform and can finally offer some serious competition to Palm.

FACE OFF

On many levels, Pocket PC and Palm are vying for the same market space, but if you look at the competing platforms closely, you'll realise that they are more different than alike. Apart from the diametrically opposed methodologies and philosophies behind Palm and Pocket PC, the hardware platforms that they run on are also significantly different.

Pocket PCs are typically larger and heavier than their Palm counterparts, and have significantly shorter battery life due to the hardware overhead that the OS requires. And, true to its name, the 2002 version really is about as close as you can get to a PC in your pocket. With improvements in networking and ergonomics, Pocket PC has developed into a serious product for power users.

The current crop of Pocket PC 2002 devices all run on an Intel StrongArm 206MHz CPU with 32MB of ROM as minimum. Compared with the Palm m505's 33MHz Dragonball VZ powerplant coupled with 4MB of ROM and 8MB of RAM, it would appear that the Microsoft camp has Palm hopelessly outgunned. However, with Palm's less-is-more approach to handheld design, it performs remarkably well for most applications considering its modest specifications.

Built-in voice recorders and media players (along with a headphone jack) are also standard on a Pocket PC, whereas Palm focuses on delivering the core platform and leaves peripheral features to those that specialise in them. This also gives customers a chance to decide for themselves whether they need these features or not, and therefore, whether they want to pay extra for them. If you do want everything however, you're better off getting a Pocket PC handheld.

Microsoft also has it over Palm in bundled software. Pocket PC 2002 ships with handheld versions of Word, Excel, Outlook, Messenger and Internet Explorer, among others. This, of course, all adds to the expense of the product and may ultimately be the deciding factor for customers if price is a major consideration.

Interestingly, we also had a chance to preview a Linux-based handheld by Sharp. We were impressed with how polished the

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interface looked. It approaches handheld design from a new angle, and if it gains support from developers and gets a proper conduit for desktop PIMs on Windows and Mac OSes, it may present an outside threat for both Palm and Microsoft.

However, this is all some way off yet, and Sharp would seem to be facing an uphill battle while it tries to push Linux into the mainstream.

WHAT TO LOOK FOR

DISPLAY

Although colour displays have improved in leaps and bounds over the past two years, the vast majority of colour devices remain in the upper end of the market. Monochrome displays still make up a large portion of the handheld market and allow manufacturers to produce relatively inexpensive devices with most of the features of the higher-end models.

Monochrome screens have better visibility out of doors and are less taxing on the battery, so there are a few reasons to opt for greyscale if you don't have any specific need for colour applications. It may not look as flash, but it gets the job done.

Palm's first colour screen model — the IIIc — displayed only 256 colours (8-bit) via its active matrix panel, but was exceptionally bright indoors and a vast improvement over its previous greyscale cousins in onscreen legibility. As soon as you stepped outdoors, however, it became washed out and virtually useless.

Colour LCD screens, as used in the current crop of handhelds, strike a much better balance between indoor and outdoor readability, and have increased colour depth to 16-bit equating to 65,536 colours.

If having the biggest screen size is important to you, then Pocket PC handhelds are your best bet. As there is no fixed stylus pad area reserved for text input, Pocket PC handhelds have the advantage of only bringing up the input method onscreen when it's called for. At other times, when you're reading an ebook or surfing the Web for example, the full screen is at your disposal. The handheld with the largest screen so far is Compaq's new iPaq H3835 at 3.8in.

Palm-based devices generally have 160 x 160 pixel resolution, while Pocket PC displays have 320 x 240, and the higher resolution is pretty evident to the naked eye. If you're comparing pixels per inch, the Pocket PCs win hands down.



EXPANSION

Expansion is the core of any handheld's ability to reach beyond its out-of-the-box functions and features. Expansion can be in the form of add-ons and attachments via the handheld's docking connector, or through card slots such as CompactFlash (CF) and Secure Digital (SD). As there are many competing formats, there are just as many variations on expansion slots in handhelds.

Until the release of its m50x series, Palm relied entirely on its HotSync connector and, to a lesser extent, its infra-red port for expansion. Now, Palm has three models (m125, m500 and m505) that utilise the SD/MMC format, which allows it to easily extend its 8MB of standard memory. Palm will be releasing an SD Bluetooth card this year to kick off the SD revolution.

However, in terms of accessories and devices available in the market today, CF is still by far the most popular format. From standard memory cards to modem and networking adaptors, CF cards have been around much longer and have market maturity on their side. They're also around

half the price of SD when comparing standard memory cards. The tricky part is that there are two kinds of CF: Type I and Type II. Type II is slightly thicker and therefore doesn't fit into slots designed only to suit Type I cards.

There are also the proprietary formats such as Sony's MemoryStick and Handspring's Springboard modules, which lock you into cards and devices only these companies and their licensees produce. If you're considering a handheld that uses either of these formats, it's best to check whether the add-on devices you want for it are available before committing.

Some of the more recent Pocket PC products, on the other hand, are hedging their bets and include both SD and CF Type II slots. This is the best practical solution for the moment. Most notably, Toshiba's excellent e570, Casio's Cassiopeia E-200 and Sharp's Linux-based Zaurus SL-5500 all carry dual slots of this nature, while Compaq has converted to SD-only on its new iPaq, and Hewlett-Packard retain a single CF Type I setup.



Early clamshell-type PDAs all featured miniaturised keyboards for inputting text in the absence of a reliable and accurate input method. Need we bring up the Apple Newton? Palm then introduced its simple, yet effective Graffiti input method where it recognises individual characters written in a stylised form representing letters in the alphabet.

Sure, you had to learn how to write each character, but most letters were close enough to the real alphabet and the rest weren't difficult to memorise. You wouldn't compose an essay on it, but it was easy enough for jotting down quick notes and appointments.

Reserving a permanent area of the display for the Graffiti stylus pad meant that the screen size would always be limited, but most were willing to put up with it for the convenience it offered. Pocket PCs previously relied on a "Character Recognizer" setup for this purpose, but they make sense of more conventional strokes. Accuracy, however, is lower than Graffiti.

The 2002 version now adds a Graffiti copycat called "Block Recognizer", as well as a "Transcriber" mode, which is getting very close to the Holy Grail of handheld computing: natural handwriting recognition. It allows you to write anywhere on the screen in individual characters, complete words, even complete sentences (providing your writing is small, of course). Once you pause, it transcribes it into "typed" text.

This is in addition to the standard onscreen keyboard and Access Panel designed for helping the user to insert signatures, date stamps, common phrases and so on. The advantage here is Pocket PC only takes up as much room as is required for the selected input method, freeing up screen space when none is required.

The choice of input methods built into Pocket PC 2002 is certainly impressive, although you can't help but feel that Microsoft is just throwing everything in and hoping that something sticks. Thankfully, it all works remarkably well and is, in most ways, superior to Palm's approach.



Here is where, once again, cultures clash between Palm and Microsoft. The latter's legacy of producing operating systems for desktop PCs is still clearly evident. Despite much effort to clean up the user interface, and make it easier to work with, you still can't help feeling like you're just working on a cut-down version of Windows. Even the Start button made it through the translation into a handheld.

Microsoft still can't resist trying to be all things to all people, even on the limited platform of a pocket device. Like its desktop cousins, Pocket PC 2002 includes many bells and whistles that most users probably have little use for. However, other inclusions, such as a handheld replication of its Office suite, are of true value.

This out-of-the-box PC functionality is hard to resist, and those using Microsoft Office on their desktop will already be familiar with how to use it. Pocket PC 2002 also includes an ebook reader, Internet Explorer and MSN Messenger as standard. Its Today summary view of calendar events and emails is "skinnable" to personal preferences. Pocket

PC 2002's tie-in with Windows XP is also impressive. Even without ActiveSync installed, XP will detect a Pocket PC device nearby if the infra-red ports are lined up, and allow for immediate transfer of files.

By contrast, the Palm OS (now into version 4.1) is minimalist in approach and sticks closely to the original creed of "give people only what they need". Despite only minor changes and enhancements over each version release, the Palm formula still works. It's the easiest platform to get in and out of.

Those who don't need much more than a basic organiser that keeps contacts, appointments, tasks and notes up to date and in sync with a desktop will be more than happy with the standard Palm offering. Those who want more can always download it from the thousands of commercially available software online.

It's very much a personal preference, but the Pocket PC 2002 platform is now stronger in its networking features. This includes support for Virtual Private Networks (VPN) and a Terminal Services Client, making it indispensable for accessing and controlling PCs and servers from remote locations. It should be a big drawcard for administrators.



WHAT TO LOOK FOR

SIZE, WEIGHT AND BATTERY

When Palm's cofounder Jeff Hawkins went back to the drawing board after the failure of his first attempt at PDAs (the "Zoomer"), he discovered users wanted two basic things: software that's simple to use, and a PDA you could fit in a shirt pocket. The story goes that he went around the Palm headquarters with a ruler and a block of balsa wood measuring shirt pocket sizes. He then pared down the features until it would all fit into a regular shirt pocket.

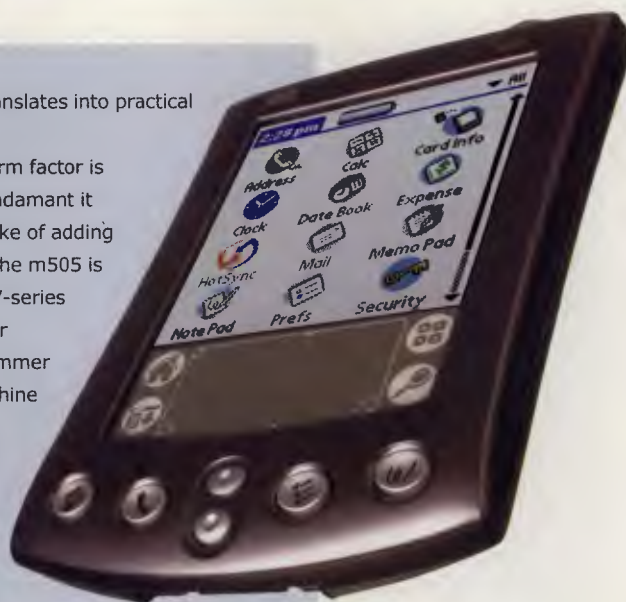
Thus the winning combination for Palm was established, and it was further refined when the sexy and slim V-series was launched. This series reduced the footprint of the original Palm Pilot 1000 and III models. The form factor was definitely the key to Palm's early success.

Even today, Palm-based handhelds are still smaller and lighter than Pocket PC equivalents. Due to its less demanding hardware requirements, it enjoys a longer battery life too. This is where Palm's less-is-

more approach really translates into practical benefits.

True to its origins, form factor is something that Palm is adamant it won't sacrifice for the sake of adding more features. Though the m505 is a little thicker than the V-series or m500 due to its colour screen, it's still much slimmer than any Pocket PC machine in the market. It follows that Palms are also among the lightest handhelds.

Pocket PC handhelds are typically more power-hungry and have battery life ratings measured in hours rather than days or weeks as for the Palms. Although advances in power-saving features in the operating system and battery technology have meant improvements in this regard, it is still no match for the Palm's frugal power consumption.



CONNECTIVITY

The Palm handheld originally shipped with 9-pin serial connectors to attach its docking cradles to a desktop PC. Only since the release of the m50x series in late 2000, did Palm finally make USB standard. Older models such as the Vx and IIIC, however, still ship with serial connectors out of the box and require customers to purchase an additional PalmConnect USB adaptor kit. Mac users have little choice but to get the kit.

Contact with the HotSync cradle was also revised with the m50x series, much to the annoyance of existing Palm users. Sporting a new "Universal Connector", the m500 and m505's were completely incompatible with any sleds, cradles or devices from previous models. Since then, a mid-level m125 version has been released that adopts the Universal Connector. This is supposed to ensure that all future models will be able to share common accessories. Let's hope so.

The story is not much better for Pocket PC devices. As there are various manufacturers of Pocket PC-based

handhelds, there are just as many variations of connections to docking cradles. Accessories relying on these connections are thus few and far between. CF is used as the primary means of connecting to external devices. However, they all use USB as the cradle's umbilical to the PC.

Pocket PCs ship with ActiveSync software for keeping both the handheld and PC in step. This offers more control and features than Palm Desktop, although it requires more effort to use. ActiveSync allows for browsing of the handheld's folder contents as if it were simply another drive in Explorer, and can be configured to synchronise immediately on connection. It also facilitates the automatic conversion of file formats when transferring between the handheld and PC.

If you're a Mac user, however, you have little choice but to opt for a Palm handheld as there are no specific conduits for synchronising a Pocket PC handheld to the Mac OS. A workaround is possible if you have a product like Virtual PC for Mac from Connectix, and run a Windows environment within the Mac OS.





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PALM VERSUS POCKET PC

Palm m505



EXPANSION

Secure Digital (SD) is the new format of choice for small, portable devices. Palm has thus incorporated a single SD slot into the m50x and m125 models enabling expansion of memory, applications and other devices by simply dropping in a card. There are also plenty of devices around that attach via its Universal Connector.

INPUT

Critics first scoffed when Jeff Hawkins, cofounder of Palm, introduced the idea that we humans should learn a new way of writing so handhelds can recognise it more accurately (being the smarter of the two and all). Graffiti was born and soon became the most successful handwriting recognition method ever, and no-one complained that it was too difficult to learn. Palms also have an onscreen keyboard as an alternative input method.



FORM FACTOR

The m505 is still the sleekest and lightest colour handheld around. Weighing only 139g and measuring a slim 12.7mm thick, it is hard to beat if size is a major consideration in your purchase decision.



SCREEN

The screen is perhaps the weakest link in the Palm. Although greatly improved over the IIic (Palm's first attempt at colour) the m505's reflective display isn't as vibrant as the Pocket PC brigade, nor as easily viewed outdoors. It also has a comparatively low 160 x 160-pixel resolution.

BATTERY

Running only a 33MHz processor and a simple OS does have its advantages. One of these is the excellent battery life of Palm devices. The rechargeable lithium ion battery sustains lengthy trips away from its HotSync cradle.

HARDWARE

Although ample for its standard built-in set of applications, the 33MHz Dragonball VZ Motorola CPU starts to struggle under heavier loads and needs to be updated very soon if it's to keep up with the pace of software development. Built-in memory is less of an issue now that it has an SD expansion slot, but is also meagre compared to Pocket PC products.

SOFTWARE

Although shipped with only the most rudimentary applications, more third-party software is available for the Palm OS than any other handheld platforms combined. The Palm OS interface is still the easiest to navigate.

Toshiba e570

SYNCHRONISING

ActiveSync software offers great control over the way your desktop and handheld keep each other up-to-date. Automatically synchronises as soon as the handheld is connected.

SOFTWARE

Being a Microsoft product, Pocket PC 2002 benefits from smooth interoperability with Windows. It ships with a generous array of applications ready to go out of the box, including Word and Excel. The improved interface is still no match for the Palm's uncluttered and task-oriented approach. Unfortunately, Pocket PC currently has no support for the Mac platform.



SCREEN

Large 3.5in colour display has better all-round visibility than the Palm m505. Its much higher 320 x 240-pixel resolution and fast refresh makes the most out of its 16-bit colour depth and even allows for full-screen playback of movies (with the unit turned sideways of course).

INPUT

The e570 has the advantage of not allocating a fixed area onscreen for any particular input method. Pocket PC 2002 lets you choose between a Graffiti-like Block Recognizer, onscreen keyboard, Letter Recognizer and Transcriber, which are all useful in their own right. It depends mostly on personal preference as to which one you'll end up using the most.

MIC

Integrated voice recorders are a standard issue on Pocket PC devices because sometimes you just can't get your thoughts down quickly enough with a stylus.

SPEAKERS

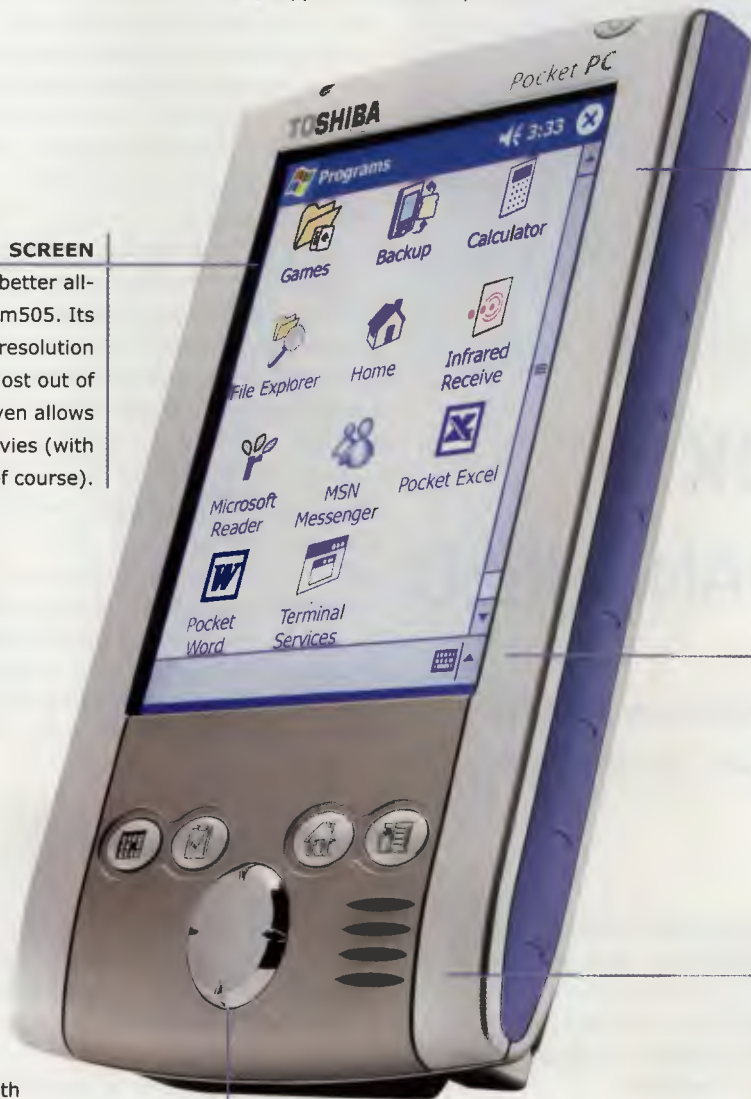
Built-in horns are actually useful for more than just reminder chimes as on the Palm. Having speakers complements the Media Player and Voice recorder quite well allowing for audio and video playback without the use of headphones.

EXPANSION

The e570 offers excellent expandability supporting both CompactFlash Type II and Secure Digital as standard in the one device. This ensures compatibility with a greater number of devices and accessories available now and in the future.

BATTERY

The Achilles heel of the Pocket PC platform is its thirst for power. Improved use of lithium polymer technology has increased life away from the charger, but even this is still well short of the Palm's power cell.





NOTEBOOK VERSUS HANDHELD

**LAPTOP OR PALMTOP? YOU COULD BE ADDICTED
TO BOTH, BUT FOR SOME PEOPLE, IT'S AN EITHER/OR
CHOICE.** *By David Flynn*

With all the power that's packed into the latest handhelds, doing away with your notebook is less ridiculous than you might think. Top-of-the-line handhelds cost half as much as an entry-level notebook, and while there's plenty that such a notebook can do, a handheld can easily handle the basic functions — the things you do perhaps 80% of the time — with quite some flair.

Add a modem and a keyboard, and a handheld can almost take on the world. Almost.

If you're serious about using your handheld as a surrogate notebook, and squeezing PC power down to pocket size, then Microsoft's Windows-based Pocket PC is the handheld to get. Microsoft built it to be exactly what its name says — a pocket version of the PC. Which means you have slim versions of desktop applications such as Word, Excel and Outlook, as well as a pared-

down media player which can handle digital music files and movie clips, and a bonsai browser and email program.

It comes down to philosophy. Palm's mantra of "less is more" means you get a device built to let you carry just the data you need from your desktop. You can add to this the software and hardware to extend it a hundred-fold, but in precisely the direction you want.

"More is more" is Microsoft's war cry, which sets them on the same safe ground as that which confirmed their desktop dominance. The Pocket PC cleverly plays off that advantage, although it's taken the software colossus four attempts to get it right.

When you get down to the key activities you might want to do with a notebook, handhelds stack up pretty well. But begin by ruling out any multimedia razzle-dazzle more intensive than audio or video clips — and even then, a handheld will be stretched if you go beyond carrying a few favourite tracks or some brag footage of the kids.

Getting back to the basics, a notebook is largely used for the same reasons as a desktop, but in go-anywhere mode. This means word processing, spreadsheets, email and, in general, organising your life.

A handheld will do all of this with aplomb — in fact, it could be said that it's better for keeping your day in order because, unlike a notebook, it can go everywhere you go.

Pocket PCs have the edge with word processing and spreadsheets, because the handheld software — Pocket Word and Pocket Excel — are built into the OS. However, the link-and-sync routine does have some bumps in that not every element of a Word or Excel document is faithfully translated between desktop and handheld.

If you're reliant on more than the basic formatting and formulae, when you shop for a handheld take along a disk with a few sample documents and spend some time shuffling these from desktop to handheld and back, each time making some changes and assessing the results.

On a more practical matter, any amount of text or number crunching is going to demand a keyboard. So if you're serious about using a handheld to the fullest, then you *must* get a portable keyboard.

Getting online is more of a toss of the coin. You can do Web browsing, provided you're happy to work within the limitations of the screen and the browser's support for Web standards. Email is far more satisfying, especially if you forget about working offline and grab a modem.

Then there's the ability to drive PowerPoint presentations and juggle databases. These *can* be done on either platform, but we're starting to get into extreme territory. There's an awful lot you can do with a handheld, but being able to do it well, with minimal excuse or compromise, is the challenge. Once you step outside the realm of word processing, spreadsheets and email, you'll have to carefully consider what you're giving up. But for a surprisingly large number of tasks, a handheld is going to make a better go of it than a notebook.



Hi, listen, when you get back to the office I need you to make a few changes to that GHL submission. We've got to simplify it, put it in layman terms.....yeah, so what I was thinking was something like this, 'we propose a central 180GB NAS managed data warehouse server.

A high speed T1 internet connection backing on to a fully switched Gigabit ethernet back bone, a Unix based firewall managing DNS, email and collaborative work flow, with a 6 hour auto shut down UPS for all servers. A 100 MBS switched LAN for 50, 2GHz Pentium 4 CPU, 512MB RAM, PC133 SDRAM, 40GB Ultra DMA hard drive, Integrated 10/100 Base-T Networking CD-RW (12x8x32) boxes and 17 inch flat panel active matrix TFT monitors. The stations are divided into groups of 5, each connected to a 40ppm, 2400dpi network attached printer with wireless infra red and a 9600dpi optical resolution scanneryeah, well I know it's a bit simplistic but they won't buy what they don't understand.....ok? And we should also describe the system's video conferencing and AV capability.....I dunno, something catchy, like a built in motion tracking web cam and Life View H323 compatible TV Video Conference Card + PCI Capture Card with an accoustic digital edge 1.5 surround sound card and Dolby 5.1 logic surround sound system, right, then there's the info on the intranet.....you're up to date on that.....



.....and VPN virtual home office access for SOHO with broad band connections and data transfer straight into the system via the CSU.....And maybe we should include some jargon, even if they don't understand it we'll look like we know what we're talking aboutAnd do you want to catch up for a bite?.....no, b, i, t, e?



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PALM CHALLENGE

PALM M125

Palm's baby handheld is shaped and priced for the youth market and first-time handheld buyers. Weighing in at just more than 150g, it's equipped with a zippy 33MHz Motorola processor, 8MB of RAM and a monochrome display. It's powered by two AAA batteries.

An SD/MMC expansion slot adds flexibility, as you can use



any of the current or forthcoming cards and devices released by Palm and its third-party partners.

The m125 uses the same swappable faceplates as the m105, which lacks an SD slot, for a more personalised look.

The mono screen is smaller than the Palm Vx or m50x series, which can make for uncomfortable viewing, but overall visibility is good.

Contact Palm
Phone 1300 360 558
Online www.palm.com.au
Price \$589
Rating ■■■■

PALM M505

Palm's flagship handheld comes in colour and mono versions, with \$200 between them. The mono m500 is better value unless you simply *must* have colour, and even then you may find the m505's panel somewhat disappointing. It's less vibrant and noticeably muddier than the Pocket PC or the older colour Palm IIIc — but this is one of the trade-offs for the longer battery life of the m505. A stealthy vibration mode lets you stay on top of alarms and reminders.

Both units include an SD/MMC slot and built-in mobile connectivity software, which uses any infra-red-equipped mobile phone (or you can buy a cable to

suit your handset) as the dialup point for your Palm, so you can compose live emails and go Web browsing.

Other bundled software includes Documents to Go, which lets you view and edit Word and Excel files as well as synchronise changes against the original documents on your PC.



Contact Palm
Phone 1300 360 558
Online www.palm.com.au
Price \$999
Rating ■■■■

PALM Vx

The sleek Palm Vx remains a favourite among Palm enthusiasts who don't need SD-card expansion or a colour screen to carry out the tasks they require.

It also enjoys a much wider range of accessories (such as cases, replacement styluses, modems and other clip-on modules) than the newer m50x series.



This update to the Palm V has 8MB of RAM, a rechargeable battery and runs PalmOS 3.5, although it still relies on serial connection to the PC — if you've got a USB-only PC or a Macintosh, you'll need to purchase the PalmConnect USB Kit, which should have been released by the time you read this article.

Contact Palm
Phone 1300 360 558
Online www.palm.com.au
Price \$699
Rating ■■■■

HANDSPRING VISOR PLATINUM

There are several Visors in the Handspring range, starting with the 8MB Visor Deluxe at \$399, and stretching to the colour Prism, the 16MB Pro and the super-slim Edge, all of which retail for \$749.

The Platinum is Handspring's middle-of-the-road product. Like the rest of the family it employs the PalmOS (under licence from Palm), adds extra software (including the CityTime world time clock, a scientific



calculator and improved DateBook) as well as speedy USB synchronisation, and throws in the versatile Springboard expansion slot.

Springboard modules range from conventional memory packs and modems to digital cameras, MP3 players and even GPS locators, as well as adaptor packs, which let you add SD and CF cards.

The Platinum uses AAA cells for main power and a small watch battery for data backup in case the regular batteries run dry.

Contact Advanced Portable Technologies
Phone 1300 300 213
Online www.handspringaustralia.com
Price \$499
Rating ■■■

HANDSPRING VISOR EDGE

The Visor Edge is Handspring's supermodel: slim, chic and draped in stylish silver. Into this 140g purse or pocket-sized handheld, Handspring has squeezed a rechargeable lithium ion battery, which has a rapid 90-minute recharge.

The device also accepts Springboard modules, but uses an adaptor that clips into the thin Edge connector which quickly removes the Visor Edge's elegant profile and effortless portability. This of course, is a less practical solution than the Platinum if you intend to use the slot.

A Fast Lookup feature lets you access address book entries with one hand, pressing the application and up/down

buttons instead of tapping with the stylus.

Unfortunately, none of the Visor handhelds use PalmOS 4.0 — instead they run on Handspring's customised version of PalmOS 3.5, which is locked in non-flash memory so it can't be upgraded by the user.



Contact Advanced Portable Technologies
Phone 1300 300 213
Online www.handspringaustralia.com
Price \$749
Rating ■■■

SONY CLIE

Already a hit in the Japanese and US markets, Sony's own Palm-based Clie is expected to touch down locally in the first quarter of this year.

The Clie's most unique attributes are exactly those you'd expect from a Sony product — sleek eye-catching design, a Memory Stick slot, a 'jog' dial to assist with navigation, a vivid colour display and, on the flagship model N710C, a digital music player that supports both MP3 and ATRAC3 audio files.



A 64MB stick, which costs around \$180, will store between two and four hours of music (depending on the recording quality) that can be played through bundled headphones while you use the Clie to get your life in order.

There is also a lower-res colour model that foregoes music capabilities, as well as an entry-level unit with a mono screen. Exactly which models will be sold here remains to be seen.

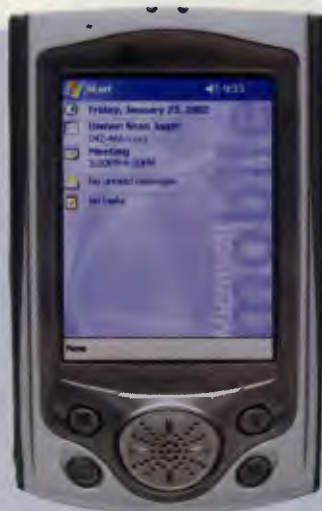
Contact Sony
Phone 1300 137 669
Online www.sony.com.au
Price TBA

POCKET PC CHALLENGE

CASIO E-200 CASSIOPEIA

Casio's sleek new E-200 arrived into Australia just in time to be included in our round-up. The unit is running on Pocket PC 2002, and at first glance is very similar to the Toshiba e570 in terms of specifications. It features both SD and CF (Type II) slots in addition to an optional PC card unit for wireless communications, a StrongARM processor, 64MB of RAM, and a 64-thousand colour Reflective TFT.

One outstanding feature of the E-200 is USB connectivity directly



through the docking cradle or through a PC card converter. This enables you to access USB devices from the handheld - meaning that you can print, use a scanner or camera, or enter text via an external USB keyboard. Using a USB hub, you can convert the E200 into a total desktop replacement by adding a VGA output card, USB modem or Ethernet adaptor, and a USB keyboard. Applications designed to make the most of the E-200's USB capabilities are expected to be developed shortly. Unfortunately Casio has not yet set a price, but it will be fixed when you read this.

Contact Compaq
Phone 13 23 93
Online
www.compaq.com.au
Price \$1,399
Rating ■■■■

COMPAQ IPAQ POCKET PC 3850

The first-generation iPAQs became the Windows-based handheld of choice. The new 3800 series upgrades the line to Pocket PC 2002, swaps the original 12-bit screen to a lush 16-bit panel, and lifts battery life by around 20%.

It also sports a single built-in SD/MMC slot, compared to the previous models, which needed an optional clip-on backpack to add SD or CF-II expansion cards. If you're looking to step up from your current iPAQ and already have an array of CF-II accessories, you'll probably want to buy the ^\$tba CF-II adaptor pack. This could also be a good choice for first-time iPAQ owners because of the much wider range of CF-II devices compared to the much newer SD format.

Compaq also offers a higher-spec Pocket PC 3870 model, which is the first handheld with integrated Bluetooth (802.11b Wi-Fi still requires an add-on card). Also available is the 3760, which is essentially an earlier model iPAQ upgraded to 32MB of ROM and Pocket PC 2002.

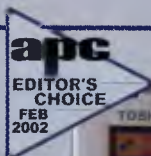


Contact Compaq
Phone 13 23 93
Online
www.compaq.com.au
Price \$1,399
Rating ■■■■

TOSHIBA E570

Toshiba's first foray into the handheld market was worth the wait. The platform is the common Pocket PC 2002 base: Intel's 206MHz StrongARM powerplant, 64MB of memory and a 240 x 320 pixel display for displaying up to 64,000 colours, although you need the backlight to be on the brightest setting to really make the colours stand out.

One of the handheld's unique and certainly its most impressive feature is that it takes both



Compact Flash II and Secure Digital cards.

This gives you a wider choice of cards, which will be very useful when SD takes off in the coming year; and if you've got one of the latest Toshiba notebooks, which have a built-in SD card slot, it'll be the easiest way to move data between your handheld and notebook.

You can also use both card types at once: for example, drop in a 64MB SD card for extra storage space for images taken with a CF-II camera.

Contact Toshiba
Phone 1800 021 100
Online
www.isd.toshiba.com.au
Price \$1,249
Rating ■■■■

In looks, features and performance, the Pocket PC 2002 editions of the Jornada range represent a substantial improvement on previous models.

Housed in a sleek two-tone, grey-on-silver casing, this is an exceptionally well-designed range and a delight to use, thanks to the addition of a four-way navigation pad that will also come in handy for games.

The flat-shaped stylus that clipped under the display cover of previous models has thankfully been replaced by a more conventional tool that tucks into the rear corner of the device. A thin plastic flip-up screen protector rounds out the sleek design.

The base model Jornada 565 is equipped with 32MB of RAM (on top of the 32MB of ROM used to store the Pocket PC 2002 OS). The Toshiba e570 offers twice the memory at the same price. If you want 64MB in a Jornada you'll have to shell out \$1,449 for the 568 model.

Expansion is another weak point — there is only one CompactFlash Type I slot for memory cards and accessories. You can purchase interchangeable adaptors for supporting other types of expansion cards built into a battery, but that's an added expense.



Contact Hewlett-Packard
Phone 13 23 47
Online www.hp.com.au
Price \$1,249
Rating ■■■■



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NEXT-GEN HANDHELDS

TWO HANDHELDS ARE CREATING A LOT OF EXCITEMENT IN THE US, BUT THEY'RE NOT FROM PALM OR MICROSOFT.

APC LOOKS AT THE NEXT WAVE IN THE HANDHELD

ASSAULT. *By Matt Overington and David Flynn*

PUT A PENGUIN IN YOUR PALM

Sharp is poised to release the first Linux-based handheld device from a major hardware manufacturer to developers for testing. The SL5500 runs on Lineo Embedix Plus PDA, which is an open alternative to Pocket PC and Palm OS, and features a similar hardware spec to many Pocket PC devices — a 206MHz StrongARM processor and 64MB of RAM as well as 64,000 colour display. The hardware capabilities of the SL5500 are not revolutionary, but the software is.

The Sharp unit relies on an expandable Linux/Java code base, which means applications written in Sun's Java language will be able

to be ported directly to the SL5500. The Embedix Plus PDA platform includes the Lineo Embedix operating system, a Java Virtual machine called Jeode, the Opera 5 browser and Trolltech's Qt/Embedded graphical user interface system, as well as a suite of small games and applications. Unfortunately, there aren't as yet any applications for the platform that are compatible with Windows or Mac OS software, but this is the reason that the device was first released to developers — to produce an application suite and increase the functionality of the Lineo base.

Removing the cost of the operating system from the price of purchasing a new handheld device has the potential to lower the cost of each unit marginally. This means that in a given price range, more money can be sunk into a display, keyboard or extra memory, instead of the operating system, which is of benefit to consumers.

SWEET BLACKBERRIES

The BlackBerry handheld has caused as much commotion as the original Palm (then known simply as the Pilot). The reason? In addition to basic diary, address book and to-do functions, these pocket-sized devices from Research In Motion (RIM) offer always-on access to email via a US-wide wireless network. Think of it as a Palm for the Internet generation.

These Java-based wireless handhelds, partnered with desktop and server-side enterprise software, have become wildly popular in financial and corporate circles. They're also the latest in personal geek chic for the digerati.

Both the pager-sized and palm-sized models boast a small keypad, crisp screens with text and iconic displays and a built-in wireless modem.

The email inbox and storage folders are automatically synchronised between the wireless handheld and PC, and it can also access standard POP3-based accounts.

RIM has recently made its first foray beyond US shores, introducing BlackBerry into the UK through British Telecom's GSM-based GPRS network. Will Australia's now up and running GPRS system make an equally tempting target for RIM? We hope so.



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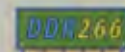
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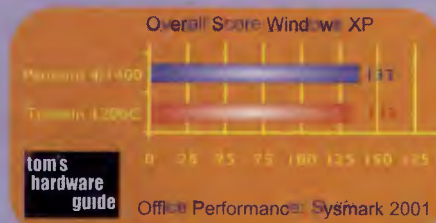
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Plug a GPS receiver into your handheld and there go all your excuses for getting lost ever again. There are several GPS modules that clip onto a Palm or slip into a Handspring or Pocket PC — among them the Megellan range (www.garmin.com) and Nexian's HandyGPS Pro (www.nexian.com). But the ultimate has got to be the SkyGolf GPS 'Personal Digital Caddie' (www.skyhawke.com). There's something oh-so superior about tapping into a satellite network designed for the US military, in order to avoid sand traps and get the exact length of that dogleg on the 8th hole. This is the GPS device for people who take their monster 4WDs no further than the local shopping centre.

HOLD THE PHONE

Cut down on the clutter hanging off your belt or swimming around your bag — the VisorPhone Springboard module turns your Visor handheld into a digital phone. The snap-on module provides the hardware smarts while the Palm-powered Handspring gives you a great interface, which works a charm for SMS messaging.

MUSIC TO MOVE YOU

Pocket PC owners can thumb their noses at the PalmOS, as Microsoft has built a Media Player into the bonsai version of Windows. But all's not lost for Palmists, with several accessories for the Palm and Handspring units that let you hit the street with up to 64Mb of MP3 tracks (some two hours of music at roughly FM radio quality) stowed away in flash memory.

Contact SoundsGood (www.goodcom); MiniJam (www.innogear.com); Shinei model (www.i-vox.com).



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TAKE CONTROL

The OmniRemote applet for PalmOS lets you drive your TV, hi-fi deck, VCR and DVD players with the handheld's built-in infra-red beam. But to overcome the IR beam's low output, which limits range to a few metres, add the matching OmniRemote

Palm or Handspring modules and you can take control of your home theatre system sitting way back in your favourite chair.



HIS MASTER'S VOICE

This is another area where the Pocket PC, with its built-in voice recording, scores a run against the Palm platform. The Palm solution: the iVox (www.ivox.com) and Total Recall (www.digital5.com) voice recorders, which let you dictate everything from a shopping list to an inspired speech.

GET YOUR BACKUP

With all that data loaded on your handheld — not to mention your hand-picked selection of software from the Web — you really need somewhere to save it in case your Palm goes pear-shaped. It's less of an issue if your handheld has a memory card slot, but models lacking this, such as the popular Palm V and funky m100 models, need a helping hand.

The MemorySafe (www.northstarmobile.com)

provides one-tap backup of your entire Palm handheld to a 2 or 8MB flash memory module.



NO JUICE? NO PROBLEM

Imagine navigating across the Simpson Desert using your Palm-based GPS and suddenly running out of power. With

the SynCharger cordless charger (www.i-vox.com) you can recharge your Palm with a simple pair of AA batteries.

POINT AND SHOOT

A number of cameras are available for the PalmOS to help you keep track of holiday snaps or to steal industrial secrets when visiting a competitor's factory. You can save photos to the handheld's internal memory or onto expansion cards for later browsing or attach notes using the conventional applications of the Palm. Although the resolution is substantially lower than that of a dedicated digital camera (800 x 600 is typical), they are useful for capturing the moment. www.eyemodule.com www.kodak.com.au



THE KEYS TO FREEDOM

The Stowaway keyboard is perhaps the ultimate in geek chic for handheld enthusiasts on the move. Starting as a slim metal package not much larger than a pack of cigarettes, it unfolds by some Dr Who-styled feat of engineering into a full-size keyboard. Palm produces their own model under licence, while Targus (www.targus.com.au) offers keyboards for both PalmOS and Pocket PC handhelds.

MIND GAMES

Nobody wants to be serious all the time. You can download and play a multitude of arcade games for both the Pocket PC and PalmOS, even Quake. And to take it to the next level, the Gameface (www.handspring.com) fits onto the front of Handspring's Visor for mobile arcade gaming. Its small plastic joystick feels similar to a Nintendo 64 controller, and destroying alien spaceships is a welcome break in between checking appointments and answering emails.

SHOW AND TELL

You can get versions of virtually all Microsoft's office suite in a format for the Pocket PC, and it's certainly easier to lug a handheld around to meetings than a bulky old laptop, so why not use it for graphical presentations? The Colorgraphic Voyager (www.colorgraphic.co.uk) is a Compact Flash VGA Adaptor that works with Pocket PC devices and provides output to analog VGA, composite or S-Video connectors.

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YOU. *By David Flynn***

AVANTGO: TAKE THE WEB WITH YOU

AvantGo's free Mobile Internet service does for the Web what your handheld does for your desktop info-manager software: it downloads only the stuff you need or want, instead of trying to shoehorn the whole shebang into your pocket. In the case of AvantGo, this means setting up "channels" based on more than 1,000 pre-canned Web sites (you can also roll your own and specify how many layers deep to dig). Each time you do a link-and-sync routine, your desktop PC uses its regular Net connection to download those channels (pared of space-hogging graphics and effects) and squirt them into your handheld. The AvantGo client lets you read them offline while you're on the move. This can make

for lengthy synchronisation times, however, and older model Palm or Pocket PC devices could choke on RAM if you subscribe to too many of those "oh so tempting" channels. Extended sync sessions also quickly drain the handheld's batteries, which can be a nuisance for older Palms with non-rechargeable cells.

www.avantgo.com

WEB CLIPPING: BYTE-SIZED CHUNKS OF DATA

Palm's proprietary "Web clipping" technology (bundled with the m125, m500 and m505 models, as well as Palm's Mobile Internet Kit) fetches small portions of Web pages through any live connection — a modem or a mobile phone, for example. Instead of live Web browsing, you get data sent in minute bursts from clip-friendly sites, and displayed on your Palm via special Web clipping applets.

It's all done through a variation of the HTML code that lies behind conventional Web pages, and it makes for a speedy response from the server.

We suggest you peruse the list of Web clipping applets on Palm's Web site before you commit, in case the data you want isn't among the clipped pages on offer.

www.palm.com

HANDHELD MODEMS: LIVE ONLINE

This is one of the most popular accessories for the connected café set, and it ranges from snap-on units for the Palm to plug-in CompactFlash card modems for Pocket PCs. Either option allows you to plug your handheld straight into the nearest phone line, dial your regular ISP and hit the Net at the full analog speed of 56KBit/s.

You may need to install some extra software, starting with a Web browser and email client (although these programs may already be bundled with your handheld or modem). Instant messaging, chat software and newsgroup readers can also be found for both platforms.

Handhelds lack the processing power and many of the multimedia tricks that some Web pages need to be viewed at their best, although Pocket PCs come close to replicating the full PC experience. But at least you'll have the whole Web plus email, and more if you want, at your fingertips.



MOBILE PHONE: YOUR MOBILE MODEM

Put your handheld and your mobile phone together for Net access anywhere, any time. The connection from handheld to handset can be done via infra-red, cable or, in future, Bluetooth.

The mobile phone dials your ISP's landline, and you're set. This is the same path commonly used for Web clipping on the Palm, but with the right software you

can surf as live as it gets. This method is expensive, as you will be paying mobile call rates to your ISP, but it's more convenient than carrying around a handheld modem — and it can be cheaper, if you make sure you limit your mobile phone sessions to short urgent emails only (and keep within your monthly contract limit).

The digerati are now leaning towards handsets built for GPRS (General Packet Radio Service) phones: a data-friendly overlay onto the GSM network which slices data into Internet-style packets and runs in always-on mode, so it's ready whenever you are.

Charges are based on the amount of data downloaded (or uploaded, in the case of outgoing email) instead of being based on how long you spend online.

GPRS speeds should hover around 100Kbit/s, so the technology is potentially twice as fast as an analog modem. Handsets are now available from Ericsson, Motorola, Nokia and Siemens on Telstra and Optus networks — and by the time you read this, APC will already be putting the newest GPRS handsets from these suppliers through the hoops. Watch out for our report in a future issue of the magazine.

WIRELESS MODEMS: CUT THE CABLES

There are two choices here: always on and almost anywhere Net access at a leisurely pace, or short-range coverage areas which provide a high-speed pipeline.

The first describes DotWAP, a service limited to Palms — and specifically the Palm V and Vx models, for which DotWAP's NEO1 wireless modem cradle is designed. DotWAP's always-on packet-switched data network supposedly reaches more than 70% of the population in all major cities, barring those in Tasmania and the Northern Territory.

The speed is limited to a maximum 14.4Kbit/s, which is ample for pure text-based screens, but painful for full browsing. Bundled applets let you send and receive email, fire off SMS notes to mobile phones and tap into WAP services. The sting is in the price tag: \$799 for the cradle, \$75 connection fee and \$69 per month package for downloading up to 300KB. Ouch.

www.dotwap.com

The alternative is SkyNetGlobal, a wireless ISP with points of presence in several city locations as well as Qantas Club lounges, plus a few international partnerships. The range of each log-in point is only a few hundred metres, so those in need of a Net fix must find the nearest node, where they'll find an 11Mbit/s channel on a standard 802.11b network, meaning any WiFi modem will get you on the air with a Palm or Pocket PC. Monthly rates start at \$22 for four hours and 80MB of traffic.

www.skynetglobal.com





SECURE DIGITAL (SD)

Used in: Palm, Toshiba

What you can get: At the moment, SD is limited to memory-based cards. A 32MB card retails for around \$140. For higher capacity you might be better off buying a compatible MMC (MultiMedia Card) wafer — theoretically slower than SD, but for running standard Palm applications and ebooks there's no noticeable difference in speed. Palm has released several content cards, such as travel guides and games, as well as a backup card. Manufacturers are also working on a range of SD hardware expansion cards; APC has already used a prototype Bluetooth module, and MP3 players and digital cameras are in the works.

Our take: With backers in both handheld camps, as well as consumer electronics giant Panasonic (as well as Toshiba's new Windows XP notebooks), we expect big things from these little cards.

SPRINGBOARD

Used in: Handspring

What you can get: Designed from the ground up as a high-speed IO port, Handspring's Springboard expansion port has attracted some of the coolest Palm peripherals around. But you can only find a limited selection in the local market, and the low production runs (the Springboard is proprietary to Handspring) make for high price tags: the 8MB flash memory module retails for \$1,990.

Our take: A good idea with unfortunate timing. With widespread adoption of the CF and SD formats, we aren't confident the Springboard will be around for much longer.

COMPACT FLASH

Used in: Pocket PC handhelds and the TRG-Pro

What you can get: Just about anything. CF cards are certainly the quickest and cheapest way to ramp up your RAM. A 32MB CF card will cost you about \$75; 64MB costs \$120. There's also a huge variety of CF hardware modules available.

The use of CF cards in a number of digital cameras means you can drop your snaps into a handheld to have an instant photo album or send them via email with the help of a modem or infra-red mobile phone link.

Our take: The momentum behind CF and the head start it already has over SD in terms of expansion devices makes this the format to beat. SD is smaller and cooler, but for now, CF is the safest, smartest choice.



CARD TRICKS

CONFUSED BY THE HANDHELD CARD SHUFFLE?

APC DEALS YOU A STRAIGHT HAND. *By David Flynn*

Deciding which handheld to buy doesn't end with the core features, the OS or even the price. All Palm and Pocket PC handhelds have support for drop-in expansion cards — but most card types are totally incompatible with each other and no clear winner has emerged as yet. The cost of these cards, as well as the functions they provide, determine the future life of your handheld, and how far beyond replacing your diary you can take it.

Most people opt for an expansion card to boost their handheld's memory so that they can store extra hefty applications or fat data files. However, expansion cards also provide a dedicated IO port suitable for adding hardware such as modems, wired and wireless network adaptors, digital cameras, music players, GPS receivers and even GSM digital telephones. This is similar to the journey of the PC Card, which began life as a memory card but is now the standard hardware expansion interface for notebook PCs.

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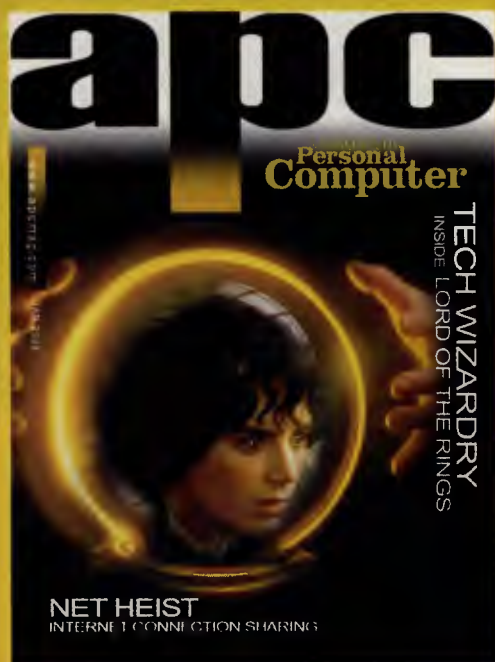
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BY KEVIN CHEUNG

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XBOX. DAYS STRETCHING INTO NIGHTS
STRETCHING INTO DAWN. WE'VE PLAYED
ALL THE GAMES AND GONE UNDER THE
BONNET. OUR VERDICT? THIS IS THE
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XBOX VERSUS THE PS2 AND GAMECUBE

MICROSOFT IS POISED TO MAKE A HUGE SPLASH IN

the console business, and it's going to do it with the most sophisticated technology gamers have ever seen. If you've spent the past year thinking Sony's PlayStation2 is the ultimate in game console design, it's time to think again. Here's proof positive that technology always gets better, faster and cheaper.

The Xbox is part of what Bill Gates calls his "three pillars" of home products. Along with Windows XP and the MSN Internet Service, it fulfills all of a household's entertainment needs as a convenient set-top box. It plays games, music and DVD movies, it comes equipped with a broadband Ethernet adaptor, and it is also compatible with the latest widescreen and high-definition TV formats.

Powered through an Intel 733MHz CPU, the Xbox has a theoretical throughput of 125 million polygons per second and 125 million particles per second, all made possible through 64MB of unified RAM and a custom graphics processor developed jointly by nVidia and Microsoft. And where the PlayStation2's non-standard architecture gives developers nightmares about memory bottlenecks and low-resolution textures, the Xbox comes equipped with a full range of the latest hardware-powered visual aids, with full-scene anti-aliasing and 6:1 texture compression. Did someone mention "jaggies"? Sorry, that word isn't even in the Xbox's dictionary.

Notwithstanding the advantages of programming games through DirectX, the Xbox's PC-driven hardware makes a massive difference in porting PC games to the system. Max Payne, for instance, is designed to run at the equivalent of full detail and effects at 60fps,



ED FRIES
HEAD OF MICROSOFT GAMES DIVISION

but the PlayStation2 version runs at low detail (30fps). Granted, the gameplay remains the same between the two versions, but the leap in visual quality makes it a fundamentally different experience.

IT'S MORE THAN JUST A SHOW OF THE LATEST AFFORDABLE technology — the Xbox is an important milestone for videogame enthusiasts. Microsoft is essentially a new player in the field, and it's not just issuing a commercial challenge to Sony and Nintendo. It's also challenging many established ideas about how console gaming is done. The Xbox's design and operation make it very much a gamer's game machine, and can even be considered as a reincarnation of the Sega Dreamcast.

Microsoft's interest in the console industry was apparent as early as 1998, when it began approaching Nintendo, Sega and Sony to persuade them to use a Windows-based operating system for their future consoles. Nintendo and Sony turned them down, but Sega, which needed as much help as it could get with its new console, saw the immediate and long-term benefits of incorporating DirectX into its development library and adopted a stripped-down version of Windows for its eventual Dreamcast. The Dreamcast didn't last long. Sony went public with details about the PlayStation2 within days of the Dreamcast's launch, leaving consumers with the impression Sega was outdated before it even had a chance in the marketplace. Sega has since bowed out of the hardware side of the games industry.

By that stage, PC software sales were slowing, consoles had reached the performance standards of high-end PCs, and Microsoft could see that it needed to explore new opportunities before serious financial stagnation kicked in. Then, in early 1999, during a meeting of 50 Microsoft executives in Washington, consumer division head

XBOX ESSENTIALS

When	March 14, 2002
How much	\$649
Online	www.xbox.com.au
CPU	733MHz Intel Pentium III
GPU	Custom GeForce3-based 250MHz chip designed by Microsoft and nVidia
Memory	64MB 200MHz DDR-SDRAM
Memory bandwidth	6.4GB/s
Theoretical polygon performance	125million/second
Polygon performance with full features (non-interactive)	100million/second
Particle performance	125MB/second
Pixel fill rate (with one texture)	4GB/second (anti-aliased)
Maximum resolution	1,920 x 1,080
Graphics features	6:1 texture compression, full-scene anti-aliasing, micro polygon support
Audio channels	256
Audio features	3D audio support, MIDI DLS2, DICE-encoded AC3 game audio
Online features	Broadband adaptor
Control ports	4

Robbie Bach bounced the idea of making a game console. The idea so intrigued Gates that, according to Bach, he sidetracked from the agenda and spent two hours discussing the console market, how to break into it, and what it would mean for Microsoft.

The idea didn't fly, mostly for fear of having to tackle Sony head-on. It took a persistent campaign by Xbox technology officer Seamus Blackley and a small army of game programmers and engineers to get the ball rolling. Initially, it was planned that production numbers would be kept to the tens of thousands, and that it would also run PC games. At that stage it was called the DirectX Box. They wrote proposals to Microsoft to build a console with PC parts, showed up unannounced at executive meetings, and eventually gained the support of Microsoft Games Division head, Ed Fries.

Fries is as much an Xbox evangelist as Blackley in the way he describes the industry's 20-year struggle to reach the mass audience: "I don't think it's about making games for girls. I don't think it's about sex or violence in games. I don't think online gaming is suddenly changing things for us and will instantly break out to this huge audience. We need to make our goal to create not just entertainment, but art." To that end, he likens the Xbox to "a great book, a great movie, a great play; they are about more than just killing time".

"We had a lot of naive ideas about what kind of crazy features it would have," says Blackley, who spoke with APC for this article (see page 94). But Blackley remained especially committed to the Xbox because he felt it was the "right time in history" for it. He continues: "Our idea centred on tools that enabled game creators to use the hardware better than anybody had ever been able to before. And we busted our butts with the hardware guys to make sure Xbox became a reality."

By July 1999, the idea reached Gates, who assigned Robbie Bach to build a business model. During this process, it was decided the console could use hardware that was at least 50% higher in performance than the PlayStation2, and that it could incorporate an 8GB hard drive and extra cache. By outsourcing production to Flextronics, Microsoft could produce not tens of thousands, but tens of millions of units. Suddenly, taking on Sony became a viable and more tempting business strategy. On February 14, 2000, Gates and Microsoft's chief executive, Steve Ballmer, green-lighted the Xbox.

MICROSOFT SPENT THE NEXT MONTHS GARNERING THE support of third-party developers. It already had talented producers under its own wing, but a successful console is always determined by the selection and quality of its games. Sony pursued this ideal successfully with the PS One. "We're very sensitive to the plight of developers, and it's always been our goal to build a powerful, balanced and approachable system based on familiar hardware," said J Allard, general manager of Xbox.



THE PAD

The control pad is much larger than is typical — it's even bulkier than the Dreamcast's with its generously spaced grips. It features two analog sticks and a digital thumb pad. The left analog stick is higher, as the primary control, and the right stick is used for secondary controls. The four primary action buttons are supplemented by another two that are directly adjacent, and a pair of analog triggers on the left and right. Two slots at the top of the pad make way for Xbox memory units.

The cords connecting the Xbox to its control pads are extra-long, to prevent accidentally pulling the console off the table or rack it's sitting on. It is supplemented with an Inline Release system, located a few inches from the main connection, which is essentially a secondary connection that unplugs itself if yanked on too hard.

The connector for the Xbox controller is, in fact, USB, but is encased in a non-standard plastic mould.





DVD VIDEO

Although all the hardware is already built in, the Xbox is not equipped to play DVD movies straight out of the box. For that, you'll have to purchase the DVD Movie Kit, which contains a remote control and an infrared receiver that plugs into one of the Xbox control ports, enabling DVD playback. Curiously, while the Xbox supports video resolutions as high as 1,920 x 1,080 for HDTV, it does not support progressive scan DVD playback.



J ALLARD

GENERAL MANAGER OF XBOX

Xbox games, and promised to streamline the development process to overcome language barriers and differences in video format. Microsoft was essentially using the event to gain feedback from the world's press, and it was for the most part positive.

Things didn't go all too well in the subsequent months, though. At the Spring Tokyo Game Show (held in our autumn), Microsoft showcased NFL Fever and other titles that didn't interest anyone outside the US. Amid complaints that the Xbox was too big and its control pad too unwieldy, Microsoft's lack of understanding of the Asian market led to an embarrassing moment: Bill Gates' introduction of the Xbox was met with a resounding silence. At the Electronic Entertainment Expo (E3) in May, Microsoft was outplayed by Nintendo (which unveiled its Gamecube) and out-manoeuvred by Sony's enormous lineup of new software. Its display of unfinished, buggy products at an unusually small stall was most unimpressive.

Microsoft turned everything around in September 2001 at the Fall Tokyo Game Show, occupying a third of a hall and demonstrating dozens of games of American, European and Japanese origin. It was a major coup for Microsoft, which also used the chance to showcase the Xbox's high-tech weaponry: high-definition TV support and real-time Dolby Digital 5.1 surround sound encoded into its games. Its presence was felt through the convention as large fluorescent green Xbox showbags were handed to anyone who ventured near its area.

With its image-building process back on track, and a launch date of March 14, 2002 set, Microsoft now focused its attention on building the Xbox brand name with the general public. Advertising for the Xbox began across Australia in November on television, billboards, magazines and bus stops, and it will culminate in a national tour when launch time approaches. Meanwhile, gamers across the world have been keeping a close eye on how it's

Microsoft signed on all but one of the top companies in the US. The lone holdout was 3DO, whose own console failed spectacularly in the early 1990s. 3DO's chief executive, Trip Hawkins, predicted the Xbox would amount to no more than a "fiasco".

Microsoft's campaign to establish the Xbox brand name began in February 2001 at its regular Gamestock convention. It showed off playable games such as Halo, Munch's Oddysee and Project Gotham for the first time, and it was here the company made its modus operandi known: that the new console was going to be "by gamers, for gamers". Microsoft pledged stringent QA standards for

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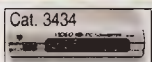
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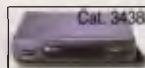


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YBOX

There's nothing revolutionary about the Xbox hardware. In fact, you can stroll into any hardware shop and pick up a Celeron processor, hard disk, RAM, graphics card and case. The Xbox runs on an NT-based operating system, and most of us have compatible hardware sitting on our desks, although it's used for a different task. There's no magical component in the Xbox that makes it different from any other PC.

Provided the details and specifications of the NT-based Xbox operating system are worked out, there's no real reason why an emulator couldn't be written to enable you to play Xbox games on your PC. If you have a DVD-ROM drive, you could be sitting at home playing Halo on your PC against a friend using an Xbox in Russia, and if you are blessed with a powerful PC, you'll experience substantially better performance. When a successful emulator is written that runs on standard PC hardware (without being locked to the specifications of the original Xbox), an entire industry of clone-makers will appear overnight.

While the 733MHz Celeron processor, 64MB of PC100 SDRAM, and 5400RPM hard disk are all capable of playing games, it's unquestionable that a faster processor and hard disk and more RAM is even better. Unfortunately, Microsoft has locked the hardware in the Xbox, meaning that you can't modify it — especially since removing the rear cover will void your warranty — so you're stuck with the rapidly dating hardware chosen by Microsoft in 2000.

It is possible, however, to construct a machine based on the Xbox design that makes use of more powerful hardware and will be upgradable. By simply mating a modified version of the Xbox operating system to regular PC hardware, the possibility of über "Yboxes" with massive hard disks, powerful processors and gigabytes of RAM becomes a definite reality.

To meet the demand created by the production of home-built Yboxes, manufacturers will create custom boxes for you to put your components into, replete with case coolers, neon lights and transparent panels. Why settle for a black and green plastic box containing a Celeron on your coffee table when you could have a furry, purple geodesic dome with transparent panels, storing a 2GHz Pentium 4 processor and heatsink bathed in a red neon glow?

One of the biggest factors spurring the development of a Ybox is cost. Although the Xbox is set to retail at \$649, it's not exceptionally cheap for the components that it contains. It's possible to put together a regular PC containing a Celeron processor, 64MB of RAM and a 10GB hard disk for around \$100 less than the Xbox, and even cheaper again if done en masse. With the price of hardware dropping daily, the Xbox will become less of a good deal as time goes by, and Ybox clones will become increasingly attractive. All that's required now is the emulation software. Expect to hear people boasting about the processing power of their consoles within a year.

Matt Overington

performing in the US. Microsoft's sales figures are very encouraging. In its first month, the Xbox is estimated to have sold approximately 960,000 units. Australia will have 100,000 units incrementally released over its first three months.

NINTENDO, WHICH RELEASED ITS GAMECUBE ON THE

same weekend as the Xbox in the US, laid an early claim to the "fastest-selling console of all time" title, but that was only for the first two weeks. Around 515,000 Gamecube units have been sold. It's the Xbox that's building a stronger reputation for breaking new ground in the console business. Visually, its games already surpass second-generation PlayStation2 games, with incredible lighting effects and impressive polygon performance that sees backgrounds extending as far into the distance as the eye can see. The GeForce3-based graphics chip and generous RAM makes it possible to output consistent, sharp image quality, with very little artefacting and no cheap blurry texturing. In a game like Dynasty Warriors 2, the PlayStation2 could use its powerful Emotion Engine to push through — with "brute force" — a few hundred rendered warriors in real time. On the Xbox, such effects would be handled with a little more finesse.

With such amazing hardware in place, there are only two things standing in the Xbox's path to success. The first is game development. Publishers have to create games that surpass the PlayStation2 and Gamecube in both presentation and design, and so far, the differences are mostly academic. However, given time, developers will be able to produce much-improved results.

The second obstacle will be a sticking point for the majority of consumers: the price. The Xbox will retail at \$649, which is 30% dearer than the PlayStation2's \$499. The asking price further escalates if you want to play DVD movies on the Xbox, as a remote control must be purchased to activate the function.

Nintendo won't be competing directly, as the Gamecube is a stripped-down games-only machine. The company hasn't confirmed local launch details, but it's expected to cost around \$400.

Against Sony's established brand, however, Microsoft will have to justify the additional expense through the quality of its games; otherwise it will have to consider a price drop — which has already been ruled out for the short term. However, it is worth remembering that the PlayStation2 didn't start selling in big numbers until its price dropped from \$799 to \$499.

Either way, Microsoft has put everything in place for the Xbox to be a major contender in the videogames industry. The available titles and the games under development are all very promising. This is an indication of a long-term gaming machine, despite reservations about the price. After all, it's the games that count.

It has the hardware, the extra features and the games. The Xbox is not to be taken lightly just because it's a newcomer. Its chances of success are right up there with the big boys.

MICROSOFT'S MR X

**XBOX TECHNOLOGY OFFICER SEAMUS BLACKLEY
TALKS WITH APC**

APC: Gamers have you to thank for spearheading the Xbox project and making it a reality. How did you start working on it?

SB: I was flying back to visit my then girlfriend, who was in Boston, and who wouldn't let me open my new laptop that I had got as I'd just started with Microsoft — I was supposed to spend my time with her and she'd only let me open it once I left.

So when I did get to open it on the plane, I turned it on, and it had nothing on it whatsoever, except Word for Windows. I thought "OK, what am I supposed to type?". I was working on an analysis of the PlayStation2 and the claims Sony made about its performance.

Then all of these things came together in my mind — that we've been trying to make Windows easier, that we've been trying to find a way to leverage all the power of the PC video cards, Sony's crazy claims on the PS2's performance, and all the tools and all the game development experience. Suddenly, this crazy idea occurred to me that just maybe we can make a console.

With that in mind, I wrote this dumb proposal and I was so excited that I called my friend at 1am from the airport. Then the next morning I showed it to him and a few other guys, and it became our mission in life to get this thing approved.

A couple of days later, we found out through the grape vine that the executives wanted to make a device for the home, and games consoles was a thing that came up. It's something Microsoft has been thinking about for a long time, but someone at Microsoft thinking about making a games console is kind of like me thinking about making a nuclear weapon in my garage.

We wanted to make sure this new device was going to be a games console, so we started inviting ourselves to meetings, and we'd show up unannounced with this full plan for a game console.

APC: How did they react to these unannounced appearances?

SB: Well, they were polite, slightly shocked. There was a kind of cultural disconnect. They were the kind of people who think about technology all day, and so they assume that the games industry is about technology. It's not that they're not smart — it's just that the games industry is about games. It's about entertainment. Content. And our idea centred on tools that enabled game creators to use the hardware better than anybody had ever been able to do before. I guess [we were] a little imposing.

The special thing about Xbox is that it's exactly the right time for it, and Microsoft had exactly the right partners and components and expertise and tools and people.



APC: Is there anything you would do differently?

SB: There were things we knew nothing about. We knew nothing about hardware manufacturing; and we knew nothing about international certification, underwriters laboratories in the US, fire hazards, distribution, international billing... we had a lot of naive ideas about what kind of crazy features it could have. We had this idea that the cord for the controller would light up. We had this prototype that did it, and it was the coolest thing we'd ever seen. I know it sounds like it would be very annoying, but it was so damned cool. But it was going to be way too much money.

APC: Was it hard to get the support of Ed Fries and other Microsoft executives for the Xbox?

SB: As a game developer at heart, Ed's been dreaming of a platform like this for a long time. Xbox is made for game developers. Everyone we went to would say "My God, this is perfect, why didn't you do this sooner?"

At a traditional games console company, the hardware guys throw their specs on the table and say to the software guys, "hey, you make it work", and the software guys get really pissed off. At Microsoft, we said to the hardware guys "this is what we need". Don't forget, Microsoft is a software company. We busted our butts with the hardware guys to make sure Xbox became a reality. Of all the things we did, that's the thing I'm most proud of.

THE DASHBOARD



SWITCHING THE XBOX ON FOR THE FIRST TIME IS

curiously like setting up Windows on a PC. You're asked to select a desired language and time zone before being presented with the Xbox Dashboard, an options menu that lets you configure video, memory and system settings.

The Xbox Dashboard is designed with user-friendliness in mind, using smart visual cues and sound effects that logically connect one set of options to the next. There's no way to customise the appearance of the Xbox Dashboard. There aren't any wallpapers or themes to be switched around — just the sublime green design with the pulsating wire frame background throughout. On the up-side, we didn't encounter anything that resembled a "blue screen of death".

Basic audio options let you toggle between monoaural, stereo and Dolby Pro Logic. Video options allow you to select the aspect ratio to conform to your television. Some of the complex functions include parental locks for games of certain classifications.

Dolby Digital 5.1 surround sound can only be accessed if supported by the game software, and you must also have an Advanced or High-Definition AV pack. Also bear in mind that the Xbox does not have a built-in Dolby Digital decoder. The full setup will require a decoder (typically an amplifier or AV receiver), five speakers and a subwoofer.

Memory management on the Xbox Dashboard is much simpler than trying to manage a standard PC hard drive. Instead of counting in megabytes, the Xbox follows the convention of other game consoles by counting its memory in blocks.

The number of blocks required for each save file varies between games, ranging from a dozen to several hundred. Unless you plan on ripping your entire CD collection, there's little risk of running out of disc space. In any case, the Xbox hard drive can be supplemented by memory cards that plug into the top of the control pad.



MUSIC-RIPPING

In addition to playing music CDs, the Xbox can actually be used to rip the music straight on to the hard drive, storing it in a derivative of the Windows Media Audio format in 128KB/s 16-bit stereo. The music can then be sorted to your taste, giving you a veritable jukebox in the comfort of your own living room, without the hassles of having to change discs for variety.

What's more, the music stored in the Xbox hard drive can be accessed during certain games. In Amped and Project Gotham, for instance, it's possible to play the stored music as part of your in-game soundtrack. That means that instead of listening to the usual gamey selection, you can inject your own brand of adrenaline with a few tracks from the Prodigy, KMFDM, Aphex Twin, or any other favourite in your collection.

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THE GAMES

HALO

Originally intended for PC, the announcement that Halo would be an Xbox exclusive sent shockwaves through the first-person shooting community, which traditionally prefers its games on a PC or Mac, where there's at least a keyboard and mouse. However, it seems that endless nights of tireless effort have paid off for developer Bungie, as Halo is not only perfectly designed for play on a console, but is arguably the best first-person shooter ever made.

It uses the de facto standard for first-person shooter controls on a gamepad, using the left analog stick for strafing and the right for free-look. The right trigger is for firing your weapon, but what's interesting is that the left trigger is used for throwing bombs and plasma grenades — a far more natural and intuitive action than pressing a random button to switch weapons.

Best described as a mix of Half-Life and Tribes 2, this futuristic shooter excels as both a single and multiplayer game. It boasts some absolutely stunning visual effects in a vivid and highly interactive virtual world, letting you fight alongside NPCs, take control of gunneries, and cooperate in piloting vehicles.

Enemy AI is excellent, as aliens run around to surround you, hide behind obstacles, scatter when taken by surprise, or run away when they're clearly outgunned. They'll even react to team-up attacks when two people are playing cooperatively.

Four-player split-screen mode is a far cry from the blurry, stuttered visuals of Golden Eye and Perfect Dark on the Nintendo 64 — the whole game is locked at 30fps, no matter how you play it, with zero performance hit in split-screen mode.

Halo is by far the best game in the Xbox launch lineup, and despite the fact that first-person shooters are normally considered a more hardcore area of gaming, it really is a game that makes it worth buying the console. Halo is the most accomplished first-person shooter made to date.



MUNCH'S ODDYSEE

The first true sequel to Abe's Oddysee, Munch's merit as a game is greatly overshadowed by the controversy surrounding the franchise's defection from the PlayStation2 fold. In that regard, Munch's Oddysee does indeed achieve a higher level of graphical beauty than most PS2 games, but only just.

You'll want to play Munch's Oddysee because of its personality. By enlisting the help of the local inhabitants (through primitive forms of communication on the control pad), players use both Abe and his flipper-footed pal Munch to put an end to the commercial madness in Oddworld. With more critters than Jim Henson's workshop, ranging from giant beasts that gallop across the fields and rip you to shreds to fanged furballs, Munch's Oddysee is the kind of quirky adventure that sucks you into its unique magical world.



AMPED

Think this is just another generic snowboarder? Not by a long shot. OK, console hats on: Amped is to Coolboarders what Mario 64 is to Crash Bandicoot. The latter had limited 3D movement along a predetermined path, whereas the former allowed full movement in an expansive 3D environment.

Amped basically puts you on top of a mountain and it's up to you to work your way down any way you see fit. The freedom and flexibility of this game design is very liberating, and makes the boarding experience so much more enjoyable.

There's plenty of incentive to perform well, as photographers at strategic trick points will take their happy snaps of you back to their publishers and put you on the cover of the next edition of a sports magazine.

DEAD OR ALIVE 3

The sequel to one of the PlayStation2's standout fighting titles, Dead Or Alive 3 elaborates on its formula of multi-tiered arenas by expanding their size and scope beyond any other system's capabilities. Players can be smashed through walls and into the next building, or be sent over the edge of a high-rise rooftop into electrified street signage that crackles and shatters as you fall through it to the street below.

Background detail doesn't sound very important to the nuts and bolts of a game — that is, until you actually play one with as much detail as Dead Or Alive 3. Weather effects, sunlight, dust, snow, swirling leaves, trees, fire, water — it's all masterfully rendered without tacky shortcuts like texture overlays, and as a result, the overall atmosphere has no peer.

PROJECT GOTHAM RACING

Not as imaginative as recent racing titles like Burnout or Crazy Taxi, Project Gotham Racing is crafted to a more traditional mould as a conventional racing game, designed to compete directly with Gran Turismo 3. The cars are stupendously modelled with exceptionally fine detail, and the slightly exaggerated sensation of speed makes it a more nail-biting experience. The tracks aren't nearly as well made, though, with some bland-looking buildings in the fenced-off city-based tracks.

Gameplay is based on an old Dreamcast favourite, Metropolis Street Racer (are we seeing a theme here?), where players are rewarded through a Kudos system for cornering and sliding through turns correctly. The end result is less mechanical and focuses more on the art of weaving through the racing lines.

FUZION FRENZY

Designed specifically with four players in mind, Fuzion Frenzy is a cross between American Gladiators and the Nintendo multiplayer favourite Mario Party. Players take part in a huge selection of mini-games that put them through obstacle courses, scavenger hunts and all-out brawls to push each other over the edge of a platform.



UP TO A DOZEN MORE GAMES ARE EXPECTED TO BE AVAILABLE AT LAUNCH, ALTHOUGH AT THE TIME OF PUBLICATION THEIR DETAILS WERE YET TO BE CONFIRMED.

INSIDE THE XBOX

ALL THIS TALK ABOUT GRAPHICS CARDS AND PROCESSORS DOESN'T MAKE MUCH DIFFERENCE TO YOUR IMPRESSION OF THE XBOX WHEN IT'S STILL JUST A BIG BLACK GAMES BOX. ANY SUCH ILLUSIONS DISSOLVE WHEN YOU POP IT OPEN, HOWEVER. INSIDE IS A WORLD OF FAMILIAR PC COMPONENTS, WIRES AND CONNECTORS THAT WILL GIVE YOU A WHOLE NEW PERSPECTIVE OF THE XBOX.



XGPU

The Xbox GPU is a GeForce3-based chip jointly developed by Microsoft and nVidia.

At the moment, the XGPU is the most powerful of its kind in any console, and unlike PC video cards, since the XGPU resides within a closed architecture, it is assured that its power will be fully utilised. It is located directly beneath the main heatsink, although curiously there is no active fan on the CPU or shielding on the power supply unit.



USB

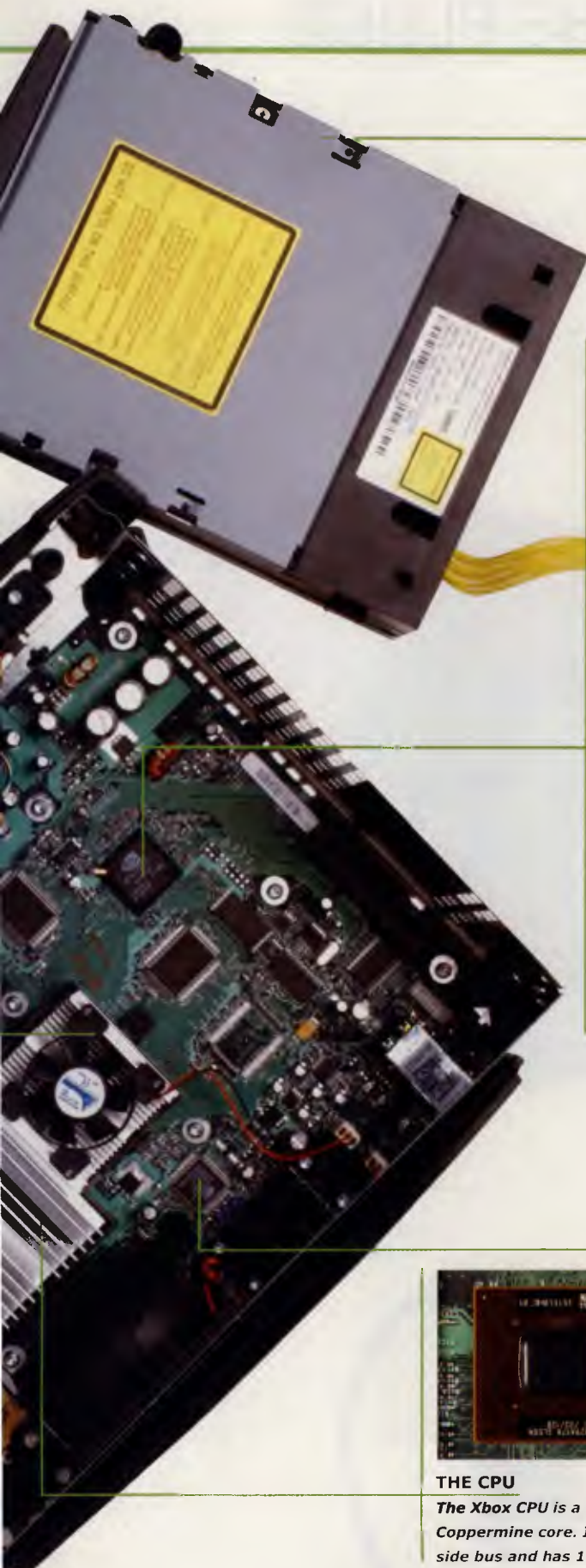
The riser card into which the Xbox control pads are plugged features a Texas Instruments USB controller. The control pads are essentially USB. However, the plugs themselves do not conform to USB specification, and so the Xbox and its control pads cannot be used interchangeably with PCs or other USB devices. Apart from the USB wires plugging into the riser card, there is one extra wire, presumably to power the control pads' built-in rumble packs.

ON THE SURFACE

At the top layer of the Xbox sits the DVD-ROM drive and the hard drive.

The hard drive is a 5,400RPM 8GB drive by Western Digital Protégé, model number WD80EB, connected via an ATA/33 cable. Various reports online have indicated that some machines have come with a 10GB Seagate hard drive instead. Unsurprisingly, plugging the Xbox hard drive into an ordinary PC motherboard produces no results, as it probably uses its own proprietary file system.





THE DVD DRIVE

The Xbox DVD drive is a Thompson TGM600. It's a normal DVD reader, barring a non-standard pin-out at the back of the drive. It will actually appear listed in the BIOS of an ordinary computer. However, without any driver software, the DVD-ROM drive won't work with Windows.



MCPX AUDIO POWER

The audio component of the MCPX features dual 200MHz digital sound processors (DSPs) that use 24-bit floating-point maths. The first DSP is the main sound processor, capable of compressing and decompressing sound samples on the fly. It supports Head Related Transfer Functions (HRTF), and outputs 256 DAT-quality sound channels. The second DSP is a downstream 200MHz 24-bit chip that's hard-coded to perform 5.1 channels of Dolby Interactive Content Encoder (DICE) functions. That is, it encodes sound into Dolby Digital (DD) 5.1 surround sound in real time. The second DSP also simultaneously accelerates the DICE process in hardware. This means there is effectively no latency between visual content and DD sound. When future games combine this with HRTF, the sound will be even better than previously imaginable.



TELEVISION INTERFACE

The Conexant Video Encoder chip converts RGB video signals from the XGPU into the supported television and video outputs.



THE CPU

The Xbox CPU is a mobile Celeron with a Coppermine core. It runs at 133MHz front-side bus and has 128KB of L2 cache.

THE PLUGS

AUDIO/VIDEO CONNECTIONS

The Xbox comes bundled with a standard AV cable that connects to a television or receiver via standard RCA inputs. There are alternative modes of connection, however, designed to optimise picture and audio quality for those with big-screen televisions and home theatre setups. First there is the Advanced AV Pack, which enables an S-Video connection and digital audio output. For optimum picture quality, progressive scan images and high-definition television support (up to 1080i), there is the High Definition AV Pack, which supports component RGB and digital audio output. The video connectors on both AV packs are all male, and will probably require the purchase of additional cables. For the absolutely hard-to-please, it will also be possible to purchase SCART adapters for optimum picture quality, as well as RF units for those with older televisions.

RF CONNECTOR

The RF Connector accommodates older-style televisions without the usual RCA inputs.



BASIC CONNECTIONS

Microsoft will be releasing AV adapters to suit all forms of video connections.

HI-DEF AV PACK

For optimum picture quality, the hi-definition pack can display between 480p and 1080i through component RGB.





SCART ADAPTER

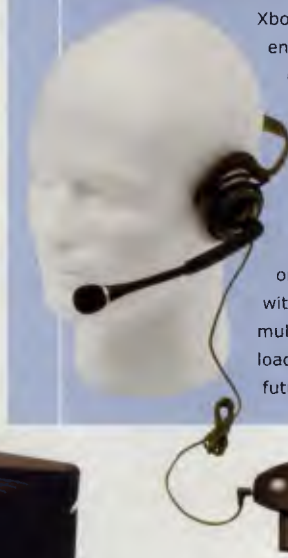
This is one of the adaptors Microsoft will be releasing to support the top-end European video format.



CONNECTING ONLINE

Networking details are still being finalised, but the Xbox will only function online through a broadband connection. Dialup access is not supported. Given Australia's weak broadband infrastructure, and the seemingly stagnant market in the US, the lack of dialup support appears to be one of the primary oversights in Microsoft's plans to make the Xbox a central hub of activity in the modern household. However, if the online code for Xbox games is properly optimised, then a broadband connection would make global gaming competitions more viable.

XBOX COMMUNICATOR

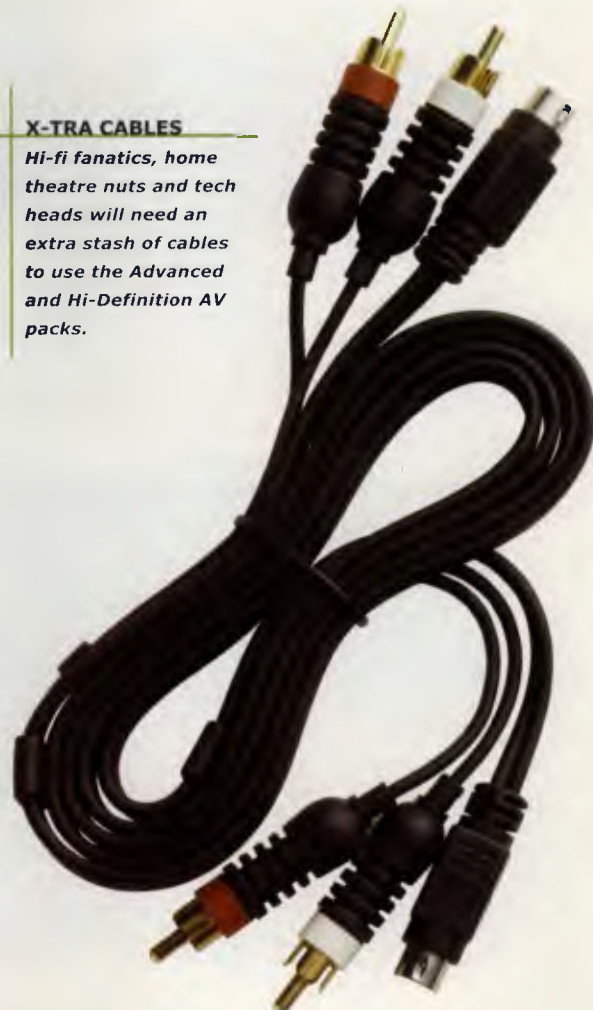


One of the future peripherals for the Xbox, this headset is designed to enable chat functions while playing games online. This will be a first for games consoles.

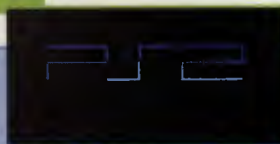
The unit is very convenient to use as it plugs directly into the top of the Xbox control pad. Once set up, players will be able to bark orders, yell abuse and trade tips with each other in team-based multiplayer games, which will add loads of enhanced possibilities for future titles.

X-TRA CABLES

Hi-fi fanatics, home theatre nuts and tech heads will need an extra stash of cables to use the Advanced and Hi-Definition AV packs.



PLAY-OFF



	XBOX	PLAYSTATION 2	GAMECUBE
VISUALS	Sharp, PC-style visuals: the latest lighting, texturing, anti-aliasing and bump-mapping effects of GeForce 3 technology. Support for resolutions as high as 1080i for HDTV ensures pristine picture quality on the most high-tech of TVs. Rating:	Amazing polygon performance and fill-rate. RAM bottlenecks, a lack of texture compression and no hardware-supported anti-aliasing have seriously hurt the performance of many games. Max resolution of 1,280 x 1,024, with limited HDTV support. Rating:	More hardware-supported effects than the PS2, but without the benefits of the processing potential of the PS2's Emotion Engine. Games are saturated with vivid colour and sharp visuals. Max resolution unknown, but supports HDTV. Rating:
SOUND	DICE-encoded games enables in-game Dolby Digital 5.1 surround sound. The MCPX accesses sound RAM at 800MB/s — 10 times faster than the DSP in the Gamecube's Flipper chip. Toslink connection for DD/DTS only via Advanced and Hi-Def AV packs. Rating:	Single Toslink built in for DD/DTS sound. DD only possible for DVD playback and non-interactive content (FMVs). New method for interactive DTS only recently discovered using raw EE power, but most games will remain in stereo. Rating:	The DSP embedded in the Flipper has an 81MHz fixed-point processor with 16-bit precision, and accesses sound RAM at 81MB/s. No Toslink, no DD/DTS support. Dolby Pro Logic II was encoded in Factor 5's Rogue Leader, but requires an external decoder. Rating:
CONTROL PADS	Solid, unusually large, and will certainly alienate the female market. Analog sticks and the D-pad are in odd positions, and the action buttons are squashed to the side, all on account of a massive plastic orb at the centre the purpose of which is purely aesthetic. Four ports built in for multiplayer. Rating:	Identical to the original Dual Shock pad, but with more levels of analogue in the sticks as well as the buttons. Pressure sensitivity is average, though, and placement of the analogue sticks isn't conducive to precise control. Only two control ports. Extra multi-tap required for more players. Rating:	Ergonomic and extremely natural to use. Analog control is easier than on any other machine. Button shapes and placement are simpler and in tune to thumb movements, paving the way for more intuitive control interfaces with its games. Four control ports built in. Rating:
EXTERIOR DESIGN	Bigger than a 3D0, 75% heavier than a PlayStation 2, beaten for width only by a Neo Geo, and as bulky as a VCR, the Xbox is the largest console ever to hit the market, and it makes no apology for hijacking your hi-fi rack. Rating:	Large (but nowhere near Xbox proportions) and asymmetrical, though there is at least some effort on Sony's part to make it an elegant piece of furniture, as it can be propped on its side and stood up like a vase. Rating:	There are gourmet hamburgers that are bigger than the Gamecube. It's impossibly small, very stylish and cute, and even comes with a handle at the back for easy transportation. Comes in three different colours to match the Game Boy Advance. Rating:
GAMES	Strong third-party support ensures a humungous software lineup, of which a large proportion are ports from games already appearing on other systems. Has comparatively few exclusives, and Microsoft's in-house teams are still relatively inexperienced with the platform. Rating:	The largest selection of games, with established franchises like Gran Turismo and Final Fantasy as well as brand new hits like Devil May Cry and Burnout. However with such a large library there's also a large number of mediocre games to avoid. It's also a PS One by proxy. Rating:	A smaller selection of games, but beats its competition in terms of established franchises and exclusives. Games include Mario, Zelda, Pikmin, Wave Race, Metroid, and Super Smash Bros. Has stronger third-party support than the Nintendo 64. Rating:
EXTRA FEATURES	Out of the box, it plays only CDs and can rip music into its built-in jukebox. DVD playback is only possible by purchasing an additional remote control. Nature of online connectivity yet to be determined, but it will only be possible through broadband. Rating:	Plays CDs, DVD movies and is backwards compatible with PS One games straight out of the box. Online connectivity will be supported later in 2002, and will require the purchase of an Ethernet adaptor. Two USB ports and a firewire port allow external devices such as keyboards and mice. Rating:	Runs on a proprietary mini-DVD format, with game discs measuring 8cm in diameter. Do not even try to put CDs or DVDs into the Gamecube. Expansion bay at the bottom leaves the door open for dialup and broadband, and Nintendo has been musing about formulating an online business plan. Rating:
FUNCTIONALITY	A simple menu takes care of music, system settings, and memory management, which in turn is split between the HD and memory cards. Load times for games are long at the initial stage and in between levels, but the substantive boot-up gameplay runs smoothly thanks to the RAM and HD advantages. Rating:	Has a wide range of options for sound, video and display settings, as well as optimising PS One game performance. Menus aren't very clearly organised, though, and it's easy to get lost in all the preferences. Game load times range from excellent to sleep-inducing. Rating:	Simple, uncomplicated, and highly conventional operating system menu with options for sound, system settings and memory card management. Load times for most games are very quick, and every game comes with a soft switch to view in progressive scan mode. Rating:

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"THE NATURE OF MY JOB, WHICH REQUIRES A LOT OF WRITING AND EDITING, IS WELL-SUITED TO CYBERWORKING."

Anne Edwards, a principal with Deloitte Touche Tohmatsu, works a two-week cyber cycle: one week in Melbourne and the other in her home near the Victorian Alps. "My health has improved, and I'm enthusiastic for work. The downside is the limited career advancement opportunities."

Mobile phones, the Internet, fax machines, laptops, home PCs and CD-ROM databases allow the average Australian cyberworker to do about one-third of their work from home. One-eighth of all cyberworkers are never in the office.

The latest figures from the Australian Bureau of Statistics (2000) show that Australia has 430,000 home workers — almost double the number that existed a decade earlier.

Telecommuting began in 1973, at the height of the oil crisis. Jack Nilles, a leading author/consultant with JALA International, got the idea while snarled in a Los Angeles traffic jam, underneath a sign saying "Maintain Your Speed". Gil Gordon expanded the concept in the early 1980s (www.gilgordon.com).

IT companies are ideal candidates for remote employment. Even so, cyberworkers in virtual offices remain unusual. Employers are suspicious. Employees wonder if they should grovel for permission.

CYBERWORKING ADVANTAGES

Nearly three-quarters of cyberworkers say that productivity is up, and the figure rises as technology improves.

Less commuting means more time for family, sleep and sport. Employees save money by spending less on cars, public transport, lunch and work clothes. Their health improves away from poor airconditioning, traffic stress, city pollution and

MARTIN AUNGLE, 31, HAS THE PERFECT job — he works from the NSW Southern Highlands, and goes to Dimension Data's Sydney office two days each week.

He joined the company in 1996, as an online consultant. He has been online marketing manager for the past three years, responsible for internal, external and customer-specific Web content.

Then he moved to the Southern Highlands to follow his wife's work and dreaded a family life destroyed by three-hour commutes.

"Dimension Data has a great attitude towards flexible working conditions," says Aungle. "When I first joined, one of my colleagues came around with a modem to set up email and remote connection to the office

on my home PC, even though I lived just 15 minutes away from the office."

Now Aungle has an ISDN pipe to his Bowral home office giving fast access to file and print servers, email, workflow applications and the Internet. The office phone automatically forwards to his home and some colleagues don't even realise he works offsite.

There were trust issues in the early stages, but Aungle says Dimension Data measures its employees on output, not hours in the office. "The nature of my job, which requires a lot of writing and editing, is well-suited to cyberworking. I shut myself away in my study and work uninterrupted for hours at a time."

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OF WORK?

unhealthy lunches. Cyberworking also means you can be flexible. You can swim when it's sunny, and work later when it's dark or raining.

CYBERWORKING PROBLEMS

Isolation is probably the problem most associated with telecommuting. Thirty-five or more hours working on your own may be too much. Part-time teleworking suits many bosses and employees best.

One hundred kilometres from the CBD is rural as far as Telstra is concerned. This could be a problem as low bandwidth is the rule in the rural sector, not the exception. ADSL has yet to deliver, cable may never reach your street and IDSN costs a fortune.

Distractions happen — don't let them wipe out your productivity gains. You can't "do coffee", put out the washing or walk the dog when you're supposed to be working. Although you do have an added degree of flexibility as to when you work, you need high levels of discipline to ensure your work gets done. If you don't have discipline, you'll pay by working late nights or weekends.

Cyberworking is not a way to work while supervising the kids either. Plan for a carer in your home, or use a childcare centre.

Suspicious bosses may support worker autonomy, but install software that checks emails and documents. It's also important to check the workers' compensation angle. Cyberworkers at Dimension Data and Deloitte Touche Tohmatsu are covered by company policies; those at NetGear are not. Will you be regarded as a permanent or casual employee? This has a profound effect on employer superannuation obligations.

"My role now is no longer technical — that responsibility is with our IT department. I still have direct access to edit files on our Web development servers, which is great when I am at home, because in theory I can react at any time and change content. The head office is in South Africa, so I often get calls between 6pm and 7pm, just as their working day starts. It may interrupt dinner, but is much better than waiting in the Sydney office for a call."

Before joining Dimension Data, Aungle did a double degree (Law/Arts honours) at the University of Sydney, and then worked for legal publisher

Butterworths Australia, as a legal editor for the pioneering online version of Halsbury's Laws of Australia.

"This was Butterworths' first publication where the editors were working directly with the production system, coding up and editing text in SGML," he says.

The best parts of his career so far have been Halsbury's, his first magazine article and his first Web site design. The worst part is dealing with bureaucracy, expense claims and leave forms.

And when he's not in the Sydney office, or his vegetable patch, he's working on his long-term ambition — becoming a film director.

TIPS FOR STARTING A HOME CYBERBUSINESS

1. Keep to an area you're already good at and in which you have contacts.
2. Trying to learn new skills while running a business is a recipe for bankruptcy.
3. Never borrow money. Use savings or a redundancy payout to get going. Re-invest profits.
4. If you can't handle marketing, sales and accounts, pay an expert.
5. If you don't tell people you're available, you won't sell anything.
6. Be persistent, determined, enthusiastic and disciplined.
7. Get a Web site or you don't exist. Make it a tight, fast-loading, informative virtual business card.
8. Join networking groups and decrease teleworking isolation.

SITES FOR CYBERWORKERS

MUST VISITS

www.telework.co.nz

Bevis England, the guru of Kiwi cyberwork, hosts this excellent site.

www.members.aol.com/siennapco/telejobs.htm

Hosted by Rosalind Mays, author of The Real Deal on Telecommuting.

www.teletask.com.au

For aptitude tests on your suitability for cyberworking.

www.gilgordon.com

Hosted by Gil Gordon, US guru of cyberwork.

WORTH A VISIT IF YOU HAVE TIME

www.globaltelecommute.com

How to market your services to employers.

www.smarteric.com

For self-employed professionals and for companies wanting freelancers.

www.freeagentnation.com

Information for people working on their own.

www.professionalcity.com

Online resources for professionals.

www.techweb.com/smallbiz

Big advice for small businesses.

www.youcanworkfromanywhere.com

Information, tips, tools and ideas to improve productivity for cyberworkers.

www.homebusinessonline.com

Tips for growing a small business from home.

www.itworkers-alliance.org

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MULTIMEDIA PRODUCER: JACQUI DESZOMBATFALVY

JACQUI DE SZOMBATFALVY'S CAREER HAD AN inauspicious start: she began as a multimedia and video producer just as the bottom fell out of the film industry. "Very experienced people were not getting work. I turned to the corporate market as the only place to get experience," she says.

de Szombatfalvy, 35, is now a DVD, video and multimedia producer in her company Bold New Media. She's been a producer for more than 10 years and has a post-graduate Diploma in Film and Television from Swinburne Film and Television School and a Bachelor of Arts in Modern Australian Anthropology.

She worked in corporate video for large clients such as Westpac, where she was writer and director of a fortnightly staff video program. During this time, she also worked on documentaries and short films, before producing, directing and writing educational programs for the Open Training and Education Network. She then moved into television, working for Beyond Productions and SBS on programs about cultural diversity.

Having technical abilities meant that de Szombatfalvy has always worked with computers. It was a natural leap to go from editing a video on computer for Media 100, to developing multimedia with video as a key component. Once the multimedia industry took off, de Szombatfalvy created Bold New Media out of her video production company, and so she became a full-time multimedia producer in 1996.

She's produced multimedia for clients such as Adobe Systems Australia, Deutsche Bank, Buspak Advertising and Deloitte Touche Tohmatsu.

DVD has brought all her skills together. The years of working in broadcast quality video, combined with her technical background in

HOW TO CONVINCE YOUR BOSS

Jane Madden, cyberworker and Deloitte partner in Brisbane, suggests you determine where you can add most value and delegate other tasks. "I'm strong in market development, and have negotiated a client ledger that enables me to target clients I can grow, and where I can best use my mining and utilities expertise," she says.

Explain you won't waste time commuting, so you won't be tired and stressed when you begin work. Industry figures range from 8% to 40% productivity increases. Aetna Health (US) gained US\$6 million (AUD\$11.5 million) in one year when 5% of staff went cyber.

Mention that cyberwork-tolerant IT companies increasingly report happier clients. Many Dimension Data staff spend time at client sites or working from home. The work requires non-standard hours and a flexible working environment is an advantage (see Profile).

IT COSTS TENS OF THOUSANDS OF DOLLARS TO REPLACE EMPLOYEES. STAFF TURNOVER IS SAID TO DROP 20% WITH CYBERWORKING.

Reassure your boss about data security. NetGear's northern regional manager Sue Ponder, who works from home while caring for her three-month-old baby says, "We all have firewall routers and antivirus software, and everyone is on a laptop, so software licences are not an issue."

Show how your company will gain a reputation for flexibility and vision. Your commitment is to company and clients, not to your desk.

It costs tens of thousands of dollars to replace employees. Staff turnover is said to drop 20% with cyberworking. You could also mention that Australia Post estimates that each sickie costs up to \$400, but cyberworking can reduce absences by up to 80%.

Finally, show how fewer people in the office means lower floor space rental and that efficiency and effectiveness depend on access to resources, not the location of those resources. ■

multimedia, means that all her different skills are being used at once. Just as multimedia took off six or seven years ago, DVD has an even greater potential, she says. It is already used for movies, and is fast moving into marketing.

"DVD is the best medium I have worked in. Clients appreciate sound and image of theatre rather than video quality."

Understanding content is important. "You need traditional production skills and an understanding of how technology can enhance with interactivity and different ways of telling a story."

What do you need to do to get involved in multimedia production? Learn Macromedia Director. Study video and multimedia production to get an overview of originating content.

"Multimedia starts with a script," says de Szombatfalvy. "Being able to write gives a clear project overview." Information architecture and design is underrated as a skill and will definitely be more sought after as DVD takes off.

The key qualities for becoming a DVD producer? "Combine technical knowledge with creative content."

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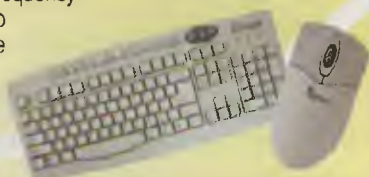
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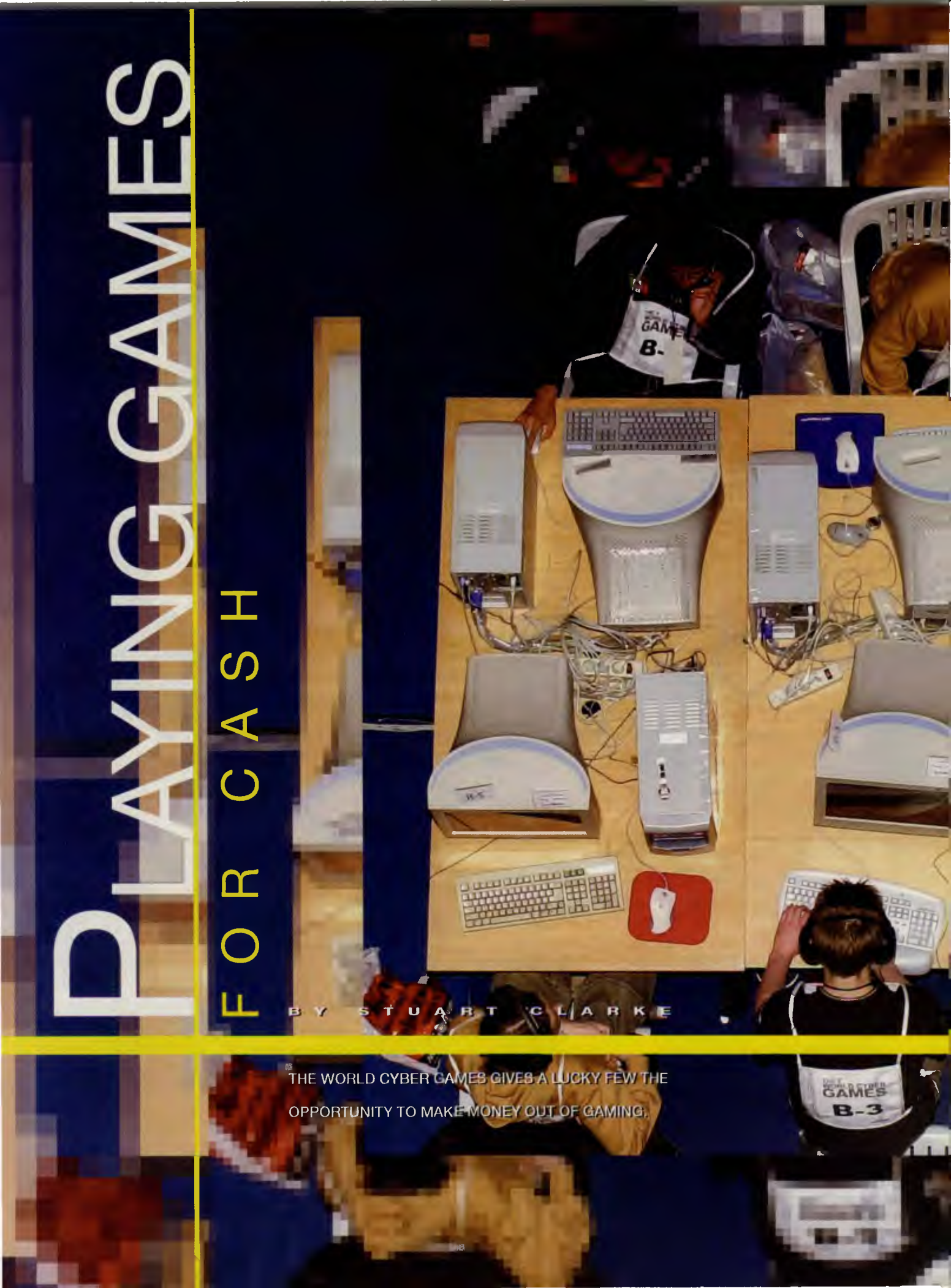
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PLAYING GAMES

FOR CASH

BY STUART CLARKE

THE WORLD CYBER GAMES GIVES A LUCKY FEW THE OPPORTUNITY TO MAKE MONEY OUT OF GAMING.





WE'VE ALL DONE IT. YOU SIT DOWN FOR A QUICK

lap/frag/level/match on your favourite computer game and somehow lose all contact with reality. You emerge hours later, bleary eyed and with fingers twitching, only because hunger or the need for sleep has finally won out.

If you're nodding at this and thinking, "Hmm, maybe I have been wasting large chunks of my life", then it's time to think again. Your gameplaying skills, honed by years of serious work avoidance, can now earn you money, fame and international travel. The recent grand final of the first World Cyber Games (WCG) in Seoul, Korea, saw 14 Australians fighting for national honour — and a slice of US\$300,000 (about AUD\$580,000) — against competitors from more than 30 countries.

The journey started with preliminary finals in Melbourne, Brisbane, Adelaide, Perth and Sydney. Then in early November, around 400 game players gathered in a cavernous hall under the SuperDome in Sydney's Olympic precinct at Homebush Bay to battle it out for tickets to Seoul and a shot at a prize pool that would have been unimaginable a couple of years ago.

Apart from the players, more than 1,000 spectators passed through the Australian WCG final on the two days of competition, which was organised very much like a LAN-party, only on a

much larger scale. Competitors supplied their own PCs and setup — something which took a few newcomers by surprise. It also felt like a giant LAN party in that the competitors were mostly male, aged between 12 and 40-something, armed with highly caffeinated drinks, easily munchable snack foods, and various notions of what constitutes acceptable personal hygiene.

For several hundred people in a closed environment, there was remarkably little noise, as all gamers were wearing headphones to avoid creating what would otherwise be a cacophony of weapon fire, screaming and other sound FX. Counter Strike teams (who were playing the only cooperative team game in the tournament) gathered together between matches, talking strategy, while rows of other players focused intently on their screens, locked in competition or getting in some last minute practice.

The inaugural Samsung SyncMaster World Cyber Games (to give the event its full title) was organised by International Cyber Marketing (ICM) — a Korean-based organisation closely associated with the i-Starzone Internet café chain — along with some financial help from the South Korean government. South Korea is the most wired country in the world; there are over 30,000 Internet cafes, and i-Starzone has ambitious expansion plans for Australia and the rest of the world. There are currently only two i-Starzone cafes operating in inner-city Sydney, but the aim is to have 200 i-Starzones in Australia by 2005.

The first World Cyber Games is part of ICM's quest to create a "Cyber Olympics" — an internationally recognised event attracting the best computer gameplayers. The WCG even has its own symbol, which is fairly close to that of the Olympics: it uses three coloured rings, instead of five. The first two circles represent the virtual and the real worlds, while the third circle symbolises the unification of these two worlds. The movement of three circles represents the constant change and innovation that is taking place.

Peter Koo, Marketing Manager for i-Starzone Australia, claims that \$100,000 was spent putting on and promoting the WCG in Australia and that, "at the moment, we're making a loss, but we see WCG as part of our investment in the future . . . We see games as a type of sport, and Australians are known for their love of sport, so we see the Cyber Olympics having a big future in Australia."

To further internationalise the WCG and bring about a true Olympics feel, the finals will move between the world's major cities from 2003 onwards. Koo is even working on a proposal to bring the finals of the WCG to Australia in the next couple of years: "Yes, we'd love to hold it here, but fundamentally we need to talk to the governments. In Korea, the government is assisting, and we would need similar help if we were to hold the Cyber Olympics in Sydney or Melbourne."



Competitors, fans and the media gathered at Sydney's Homebush Bay SuperDome for the first World Cyber Games Australian final.



A typical games demographic: mostly male, mostly too young to vote.

Koo says that the pool of gameplaying talent here is high, but compared with some other countries, computer game playing in Australia doesn't attract much attention. "We see a lot of talented Australian gamers who aren't getting a lot of support and we would like to support them. People like Python and Lobsta [Quake 3 players] would be like rock stars or movie stars in Korea."

When asked how he thought the Australian leg of the WCG finals went, Koo expressed disappointment at the numbers it attracted. "It went OK; we would always like more, but we'll put more effort in next time. Next year, we'll be trying hard to get more people involved and really establish the theme of Cyber Olympics."

The contestants certainly seemed to enjoy themselves, and the prizes proved a big incentive for entry. As Arvind Sundaram, a member of the winning Counter Strike team said, "If someone offers you a trip to Korea for playing a computer game, you're going to try pretty hard to win it!"

Gamers battled for supremacy in a variety of genres. Strategy fans went head-to-head on StarCraft: Broodwars and Age of Empires 2, first-person shooters battled it out in Quake 3, Unreal Tournament and Counter Strike, and sport was represented by FIFA 2001.



In Korea, talented gamers like this year's Australian winners inspire the same kind of veneration that rock stars or movie stars attract.

The winner of the hotly contested team game Counter Strike was a Sydney group called Synergy (Syn for short). Syn is made up of five guys between the ages of 15 and 19 — the leader, Jeremy Doyoe (nickname Rase); Arvind Sundaram (Loki); Dimitri Liolio-Davis (Bigg-D); Sean Piaras (.50); and Billy Ho (7.62). They didn't know each other in real life before Counter Strike entered their lives. They live in different parts of the city, and met up on the Internet and at small LAN matches. Loki started off playing against unknown opponents over the Internet, but eventually "got sick of playing online and spammed my ICQ list to see if I could form or join a LAN team".

WCG VERSUS CPL

At present, the WCG offers the largest prize pool for competitive gaming, but it is not the only organisation to have set its sights on creating the premier global gaming league. Indeed, in the future we may see a situation not unlike the present one in the boxing world, where several federations compete for domination.

Launched back in June 1997, the Cyberathlete Professional League (CPL) introduced the idea of making computer game playing a professional sport. Based in Dallas, Texas, the CPL concentrates solely on first-person shooters such as Quake, Counter Strike, Unreal Tournament and Aliens vs Predator 2. As this genre attracts the most fanatical players, it is probably the largest gamers' league in the world right now. It has attracted big-name corporate sponsorship from the likes of Intel, Altec Lansing and Logitech.

The CPL World Finals took place in Dallas at the same time as the WCG Finals in Seoul, and although the prize pool was only US\$150,000, (about AUD\$290,000) it definitely attracted the cream of the crop (especially from the US and Europe). Loki, from Australian WCG Counter Strike winner Synergy, said that his team "actually wanted to go to CPL, "but we couldn't afford the airfares as there was no Pacific League this year. All the best American, Canadian and European teams were there, so it would have been really good."

The strength of the WCG, apart from offering double the prize money, is the variety of games in competition — there's strategy and sports, as well as first-person action. Although the WCG has made little impact in the US, in its first year the Asian, European and Australian rounds attracted strong competitors. The teething problems that were experienced can be attributed to the newness of the event. Peter Koo from i-Starzone promises that the WCG will be back in Australia in 2002, bigger and better, and having learnt some lessons from its first round.

A CPL Pacific competition was held in 2000, but it didn't come our way in 2001, and it is uncertain whether it will return in 2002. This means that unless you want to pay your own way to Dallas, your best bet if you want to earn money and travel by playing games is to get practising in time for next year's World Cyber Games.

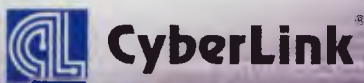


Loki (aka Arvind Sundaram) met WCG teammates when playing Counter Strike on the Internet.

Synergy formed only a few weeks before the Australian final of the WCG — it was their first LAN competition together (Loki claims coolly that they didn't even practise much). After winning the WCG and an all-expenses-paid trip to Korea, they went on to win the Australian Gaming League competition in Melbourne, pocketing \$1,000 for their efforts and firmly establishing themselves as Australia's top Counter Strikers.

Several members of Syn (Loki, Bigg-D and Rase) split from another Counter Strike clan, Pantheon, in the months before the Australian WCG. Pantheon had been successful in the past, winning last year's CPL (Cyberathlete Professional League) Pacific competition. In an interesting twist, Pantheon and Synergy battled it out in the final match of the WCG, which ended up being a marathon affair that stretched to 3am and had to be transferred from the SuperDome to one of the i-Starzone cafes.

Loki claims that although the game was tense, things didn't get too heated. They remain friends with Pantheon, but he said, "we both wanted to win the trip to Korea and they were slightly annoyed when we won. Kalgo [Pantheon's leader] wouldn't speak to us for a while."



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Synergy has two members who use wheelchairs (Rase and Bigg-D). One of the notable features of the WCG (and LAN parties in general) is the high participation of disabled players, some helping control the onscreen action with their mouth. As Peter Koo points out, "in the Cyber Olympics everyone is equal — male, female and disabled. Because it's a virtual environment, everyone competes on a level playing field."

Bigg-D, who has used a wheelchair since birth due to spinal cord problems, uses a Gamepad for movement rather than the keyboard. He says players in wheelchairs are "happy we're accepted in the LAN scene. There have been some incidents, but normally other players don't disrespect us because we're in wheelchairs. In fact, a lot of people think that we're some of the best and toughest players."

He got into Counter Strike for its team-play possibilities after playing Quake for a while and not being very good at it. "With CS, the pressure's not all on yourself, but you've got to play a lot smarter. You don't have to be the best shooter to

AUSTRALIA'S FIRST CYBER OLYMPIANS

A total of 22 people were flown to Korea from Australia and New Zealand, including the winners and some minders for the underage and wheelchair contestants. Representing Australia at the World Cyber Games Final held in Seoul in December were:

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COUNTER STRIKE

- 1st Synergy: Rase (Jeremy Doyoe), Loki (Arvind Sundaram), Bigg-D (Dimitri Liolio-Davis), .50 (Sean Piaras), 7.62 (Billy Ho)



Bigg-D (aka Dimitri Liolio-Davis) faced his old team, Pantheon, in the Australian final of the World Cyber Games.

win. If you've got brains and can find the best positions, you'll do well."

Bigg-D could have a lot of fun with the cash prize, but he's mainly excited about the trip overseas: "It's not so much the money, it's the opportunity to go overseas and test your skills against people from around the world." Especially the Europeans — their style of play is apparently quite different to Australians, and until now, a test of tactics hasn't been possible because of the distances involved.

Loki is confident of a good showing, saying that he's been doing some homework and checking out the international teams. He's wary of some of the Asian competitors, but said, "I've seen a demo of the Germans and they weren't as good as I thought they would be."

With the start of big money competitions and the possibility of playing professionally, computer games have reached a whole new level. It seems that non-athletic people will finally have a chance to represent their country and win big bucks playing a sport (so all that complaining about overpaid golfers will have to stop). Isn't the virtual world wonderful? ■

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Acer 211C 21", 26 1600x1200 75Hz	\$1,663
Gateway EV500 15 (1Yr RTB Warranty)	\$179

Sony 15" SDDM51 TFT Monitor	\$1,263
Sony 15" SDDM50 TFT Monitor	\$1,848
Sony 18" SDDM80 TFT Monitor	\$4,868
Sony 18" SDDM81 TFT Monitor	\$3,999

CASINGS

Deluxe Midi Tower ATX 250W	\$65
Deluxe Midi Tower ATX 300W (For Pentium 4)	\$76
AOpen P4 Full Tower ATX HQ08 300W	\$256
AOOpen Full Tower ATX HX08 P4	\$213
AOOpen Midi Tower ATX P3 K4F5	\$94
AOOpen Midi Tower ATX P4 K4F5	\$107
AOOpen Desktop ATX HX95	\$126
Macase Midi Tower ATX KA-80 300W	\$139
Macase Midi Tower ATX KA-580WP 300W	\$142
Macase Desktop ATX (250W)	\$127
Macase Full Tower KA-130P4 Champion	\$256
Macase Ki-P32 4U Rackmount ATX Case 300W/\$495	\$495
Macase 8-Bay Ext. SCSI -50 CDROM tower	\$572
Macase 14-Bay Ext. SCSI -50 CDROM tower	\$935

KEYBOARDS

Deluxe 104 - Keyboard PS/2	\$15
Acer AccuFeel Keyboard PS/2	\$23
Logitech Internet Keyboard PS/2 (oem)	\$53
Logitech Cless Keyboard + Mouse (oem)	\$119
Logitech Cless Freedom Pro (K/b + Mouse)	\$239
Logitech Cless Freedom Optical (K/b + Mouse)	\$230
Microsoft Internet Keyboard PS/2 (oem)	\$49
Microsoft Ergonomic Elite PS/2	\$63
Microsoft Natural Keyboard Pro PS/2+USB	\$124

MICE

A4+ 400dpi 2-Button Serial	\$7
Browser Mini Mouse PS/2	\$15
Dual Scroll wheel mouse PS2	\$74
Swann Mini Mouse (Blueberry) USB	\$14
Logitech Wheel Mouse PS/2 (oem)	\$42
Logitech Wireless Mouse USB (oem)	\$42
Logitech Cordless Wheel Mouse PS/2	\$120
Logitech Cordless MouseMan Wheel PS/2	\$108
Microsoft Trekler Mouse PS/2 (oem)	\$17
Microsoft IntelliMouse Optical PS/2 (oem)	\$44
Microsoft IntelliMouse Explorer USB (oem)	\$72

CD ROM

Samsung 1.6G 52x CD-ROM Drive	\$69
50x Asus IDE CD-ROM Drive	\$63
4x Plectra SCSI (20MB/s) CD-ROM Drive 50pin HD	\$273

DVD ROM

Altec Lansing AVS 300	\$82
Creative Speaker Kiosk Stand	\$86
Cambridge PCWorks 3-p	\$369
Cambridge FPS1000 4-p Surround	\$128
Cambridge FPS1600 4-p Surround Digital	\$172
Cambridge FPS2000 4-p Surround Digital	\$380
Cambridge DTT2200 5-p Speaker Bundle	\$317
Cambridge DTT2500D 6-p Desktop Theater	\$564
Cambridge DTT3500D 6-p Desktop Theater	\$792
Cambridge SW320 3p wood subwoofer	\$90



PC RETURN TO CASTLE WOLFENSTEIN

DODGE BULLETS, ENTER
ANCIENT CRYPTS AND EXPLORE
BOMBED-OUT RUINS IN THIS
FIRST-RATE SEQUEL.

By Daniel Gardiner

Wolfenstein: the name is legendary among long-time PC gamers. In the 1992 classic, you played BJ Blazkowicz, a WWII Allied operative sent to infiltrate a Nazi fortress called Castle Wolfenstein. The graphics were crude and the level design was primitive, but the game spawned a legion of imitators.

It's now 10 years later, and the sequel is much more polished. From

level design to sound and graphics, almost everything in Return to Castle Wolfenstein (RTCW) is first-rate.

Once again you play as Blazkowicz. The action begins in Castle Wolfenstein, but doesn't stay there for long. Missions are varied, and you get to explore many different settings.

Objectives are well explained, and there is considerable freedom in how you accomplish them. With some stunning level design and beautiful texturing, the variety of missions keeps the game nicely paced and constantly exciting. Multiplayer is outstanding.

Sound and music are also superb. Effects are sharp and ultra-realistic, and there is a pleasing orchestral score. Bullets make a distinctive noise when

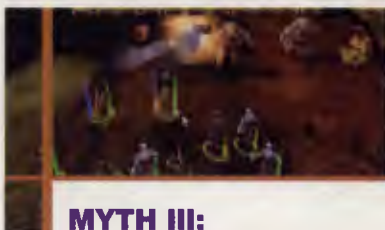
they hit your surroundings: a suitably heavy thud for smacking into wood, and a resoundingly satisfying "chonk" on hollow metal machinery.

There are no major problems, but there are a few minor annoyances. A little disappointing is RTCW's artificial intelligence, which varies from great to mediocre. Enemies pursue you up ladders, but they still try to climb them when you're raining down bullets.

Like other recent FPSes, the single-player game falls a smidgen short. Bumping up the difficulty increases the time it takes to get through, but extra missions would be welcome.

On the whole, Return to Castle Wolfenstein is not just an excellent sequel, it's one of the best first-person shooters to date. Get it. ■

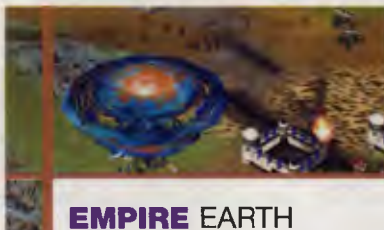
Online www.castlewolfenstein.com
Price \$89.95



MYTH III: THE WOLF AGE

The third game in this squad-based RTS series is set 1,000 years prior to the first two and has enough substance and challenges to please fans and newcomers alike.

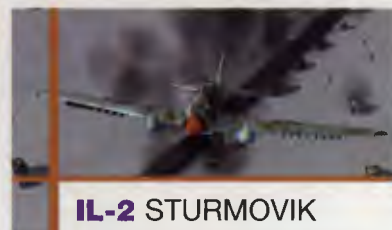
Online www.myth3.godgames.com
Price \$89.95



EMPIRE EARTH

Combining Age of Empires with Civilization, Empire Earth makes an enjoyable and different RTS. It does a lot right, and has amazingly varied and enjoyable gameplay, but it lacks balance. It is still an impressive game and will have strategy fans enthralled for months.

Online www.empireearth.sierra.com
Price \$99.95



IL-2 STURMOVIK

Fly Russian, German and American fighters in this beautifully crafted WW2 flight simulation. With gorgeous graphics, terrifically detailed planes and multiplayer missions, it's one not to be missed by sim fans.

Online www.il2sturmovik.com
Price \$79.95



ACE COMBAT 4: DISTANT THUNDER

PS2

FLIGHT SIMS AREN'T FOR EVERYONE, BUT THIS GREAT LITTLE ARCADE GAME SOARS PAST ITS PREDECESSORS.

By Kevin Cheung

Set in the near future, Ace Combat 4 puts you in the thick of a war over the fictitious nation of Erusia. As a pilot in the underdog allied forces, you must undertake a series of missions to prevent further territorial expansion by the Erusians, and with any luck, destroy their devastating anti-aircraft gun, the Stonehenge cannon.

Offering a combination of simulation and arcade styles of gameplay, this is the best flight sim for consoles. It's

easy to get into and control, yet the gameplay elements are deep enough to interest flight enthusiasts and keep them busy over the long haul.

Visuals are dreamy: beautifully modelled and textured planes glisten in the sun, rippling through the air with motion blur and exhaust fumes. There are also a few thoughtful simulation-style visual elements, such as moving flaps and rudders, afterburners that open up before kicking in, and a unique internal cockpit view for every plane. From this perspective, you can use the right analog stick to look around, and you can even watch your missiles detach and fire from the wing.

The game's 20 missions are well paced and have a wide variety of objectives. They range from defending missile launch sites and

intercepting enemy sorties, to assisting the ground forces of a three-pronged coastal assault. It can be difficult, and although the planes come with an Afterburner-style stash of missiles (the only arcade aspect that is annoying), there are times when you need to head back to the carrier for more ammo.

Atmosphere also plays a key role in Ace Combat 4. The tac-coms are filled with chatter as pilots and co-pilots spot bogeys, missiles and kills, and yell abuse at the enemy. It feels authentic because the voice samples rarely repeat themselves.

Ace Combat 4 is a remarkable arcade simulation. It's easy to get into, flexible to play, and thoroughly addictive. ■

Online www.acecombat04.com

Price \$99.95



HEADHUNTER

Sega's answer to Metal Gear Solid depicts a "future shock" society with a Robocop-style privatised police force. You take on the role of an elite bounty hunter suffering from amnesia.

Online www.sega.com

Price \$99.95

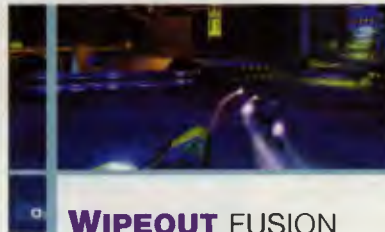


CAPCOM VS SNK 2

This is the first 2D brawler fighting fans can really sink their teeth into, and the best on the market. Now that SNK is closed for business, this is the last you'll see of classic characters like Kyo Kusanagi and Iori Yagami.

Online www.capcom.com

Price \$99.95



WIPEOUT FUSION

Enjoy stylish and smooth anti-grav racing, along with new effects such as snow, smog and clouds of dust. Wicked fun, however the low texture detail is bound to prove to be disappointing.

Online www.wipeoutfusion.com

Price \$99.95



SWORDFISH

THIS INTENSE, SOPHISTICATED THRILLER OFFERS PLENTY MORE IN DVD RELEASE. *By Matt Overington*

Set in the present day, *Swordfish* is a tale of theft. John Travolta plays corrupt CIA operative, Gabriel Shear, bent on breaking into the world's most advanced computer network and making off with a large sum of money from a government slush fund, codenamed Swordfish. He elicits the help of notorious computer hacker Stanley Jobson (Hugh Jackman), who risks parole violation to join Travolta. Halle Berry and Don Cheadle join Jackman and Travolta to complete a solid cast.

The movie is presented in 16:9 widescreen format, with an aspect ratio of 2.35:1. The audio is Dolby Digital 5.1 surround compatible, and there are English subtitles for the hearing impaired.

The pace of the action is fast, and numerous twists and turns in the plot line help make *Swordfish* one of the most interesting suspense/action movies released in recent years.

Listed among the disc's numerous extra features is a "Making of" documentary produced by HBO that includes behind the scenes footage and interviews with cast members. Effects in Focus is an eight-minute clip describing and highlighting the production of a particularly complicated scene where a bus is hoisted into the air by a helicopter.

One of the biggest attractions of *Swordfish* is its unpredictable plot line, so beware if you watch the included trailer as the end is practically given away.

Exclusive to the Australian (Zone 4) release of *Swordfish* is the



Halle Berry's performance is the best of a very good lot.

inclusion of a *Rove Live* interview recorded around the time of *Swordfish's* release in Australian cinemas. The interview features Hugh Jackman and John Travolta talking with Rove McManus, and is one of the highlights of the disc for anyone who missed the original broadcast.

A commentary track is also available, and director Dominic Sena guides you through the production of each scene — which can get a little tedious at times. If you have a PC with a DVD-ROM drive, there are additional features that can only be enabled if you correctly answer a series of questions.

The characters are interesting, and Halle Berry's performance is especially good. *Swordfish* is a gripping, intense thriller full of twists and turns that keeps you on the edge of your seat. ■

Price \$39.95

15 MINUTES

This movie really does justice to the DVD format. It packs in plenty of features along with the usual director's commentary and theatrical trailers. The list includes rehearsal scenes that play the "final cut" in picture-in-picture mode, deleted scenes and two documentaries.

Price \$39.95



DR WHO

THE CAVES OF ANDROZANI

Buying the Doctor on DVD has its ups and downs. There are no extra features, but it's retro, it's got fake-looking monsters AND on this disc you get to see the Doctor go through his regeneration sequence. Fans will love it.

Price \$32.95



THE ANIMAL

A clueless cop is saved by animal organ transplant surgery only to be overcome by the behaviour of various species. Six brazenly silly scenes are reinstated for the DVD edition, along with filmmakers' comments, actor profiles, and a DVD game to play with your remote.

Price \$34.95



TECHNOCULTURE: FROM ALPHABET TO CYBERSEX

AN INTERESTING STUDY OF HOW TECHNOLOGICAL CHANGE

AFFECTS SOCIETY. *By Lindsay Hayman*

Local author Lelia Green presents a thought-provoking study of how technology interweaves with society, culture and policy, focusing largely on digital communications.

Promoted as "an ideal undergraduate student text for courses on technology and culture or technology and society", it is of equal interest to anyone who stops to question where technology and society are headed and what effect the rate of technological change is having on our culture.

We tend to think of all great advances in technology as isolated moments of discovery that occur in a vacuum — Archimedes and his "Eureka!" moment, for example. However, they have much more to do with the culture within which scientists work, and these two forces

— the culture and the technological discovery — impact upon each other.

Green argues that all changes in communications patterns have complex social and cultural ramifications, and more specifically, that the "dynamism that fuels the development of digital technologies is outstripping the ability of researchers and investigators to keep up with the pace of change". What effects will digital technologies have on the way we communicate on a human level, and what effects will they have on society in general? What does the development of these technologies indicate about the society we currently live in?

This work is timely in that it appears at a time when many people see technological development as fuelling itself — as uncontrollable. Green argues that the technological juggernaut becomes a self-fulfilling prophecy if we believe ourselves unable to shape it and so abandon it to develop unregulated.

She points out that where technology is challenged, such as it has been in the cases of genetically modified foods and human embryo experimentation, the rate of development can be controlled. In short, we *can* make a difference to technological development if we take enough interest and get involved.

Ultimately, Green says, "we may do well to balance our virtual lives with our real lives, but value them both for what they tell us about ourselves, about others and about our humanity". Food for thought. ■

Publisher Allen & Unwin

Price \$35

ISBN 1865080489



We can take control of the future of technological development, but will we?

Big ISSUES

Since 1996, US technology magazine *Forbes ASAP* has published an annual collection of reflections on the impact of the digital age. *Big Issues: The Examined Life in the Digital Age*, contains contributions from the last five editions, including the views of over 65 people. It is lively, illuminating and utterly readable.

Publisher John Wiley & Sons

Price \$44.95

ISBN 0471414913



Boo hoo: A DOT.COM STORY FROM CONCEPT TO CATASTROPHE

Boo hoo follows one dot com — boo.com (an etailer) — from its humble beginnings to its conclusion. Many of the details in this book will enrage some readers, but the author, Ernst Malmsten, is successful in detailing the egotistic madness behind the scenes of the dot com boom.

Publisher Random House

Price \$55

ISBN 0712672397



TIME TRAVEL IN EINSTEIN'S UNIVERSE

Depicted in countless films and stories, the idea of time travel still creates controversy when its feasibility is debated. According to author J Richard Gott, it has already occurred. This is a challenging and absorbing read.

Publisher Orion Publishing

Price \$49.95

ISBN 029760760X



WEBFILE GO SITE-SEEING

DIGITAL BLASPHEMY

www.digitalblasphemy.com

Most of us never bother to change our background wallpaper far beyond the standard ones that have come with the operating system. Digital Blasphemy features the creations of 3D digital artist Ryan Bliss, and is essentially an online repository for high-quality computer-generated 3D art. Replete with detailed images of stars exploding, crimson suns dropping into surreal oceans and some of the most realistic fog effects we've ever seen, Digital Blasphemy will transform your desktop.

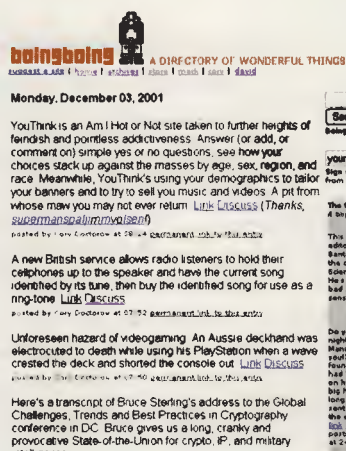
Matt Overington

BOING BOING

www.boingboing.net

A frequently updated collection of amusing, enraging and quirky stories from the Web. Covers topics from emerging technologies, books, comics, politics, online phenomena (eg, the world-famous Mahir and the Tourist Guy) and zany morsels. The commentary is insightful and humorous, and always a pleasure to read.

Daniel Gardiner



boingboing A DIRECTORY OF WONDERFUL THINGS
EXCLUSIVE: LISTS • FUNNY • WEIRD • SCIENCE • MUSIC • ART • FOOD

Monday, December 03, 2001

YouThink is an Am I Hot or Not site taken to further heights of fardish and pointless addiciveness. Answer (or add, or comment on) simple yes or no questions. See how your choices stack up against the masses by age, sex, region, and race. Meanwhile, YouThink's using your demographics to tailor your banners and to try to sell you music and videos. A pit from whose man you may not ever return. [Link Discuss](#) (Thanks, [supermanspallumvolsen](#))

A new British service allows radio listeners to hold their cellphones up to the speaker and have the current song identified by its tune, then buy the identified song for use as a ring-tone. [Link Discuss](#)

Unforeseen hazard of videogaming: An Aussie deckhand was electrocuted to death while using his PlayStation when a wave crested the deck and shorted the console out. [Link Discuss](#)

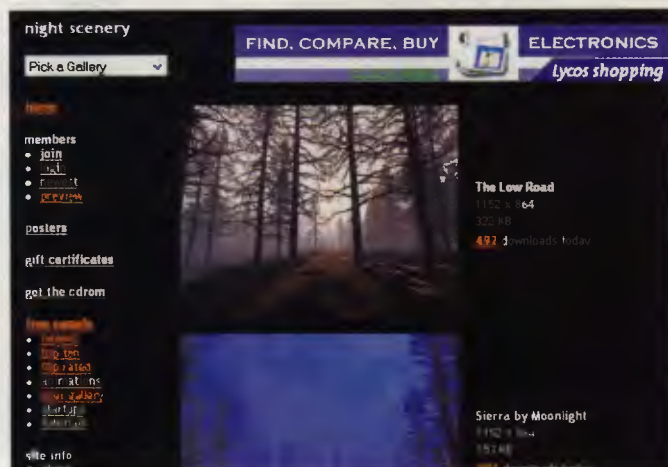
Here's a transcript of Bruce Sterling's address to the Global Challenges, Trends and Best Practices in Cryptography conference in DC. Bruce gives us a long, cranky, and provocative State-of-the-Union for crypto, IP, and military technology.

DARK HORIZONS

www.darkhorizons.com

Film guides, movie news, industry gossip, trailers, DVD reviews — you can find them all at Dark Horizons. The site's creator, Garth Franklin, has been described as the Matt Drudge of the movie world, always digging up the juiciest rumours from Hollywood. Also a great spot to get pics of your favourite flick before it hits the big screen, and lots of trailers to download.

William Maher



THE 5K



www.the5k.org

This site holds an annual contest and bestows awards for "excellence in Web design and production". The criteria: any page must be under 5KB in size and self-contained.

In 2001, the categories were increased to include Flash, JavaScript and others. You'd be surprised what can fit in 5KB: the 2001 winner was "PixxxelChix, a 5K porn site".

Darren Ellis

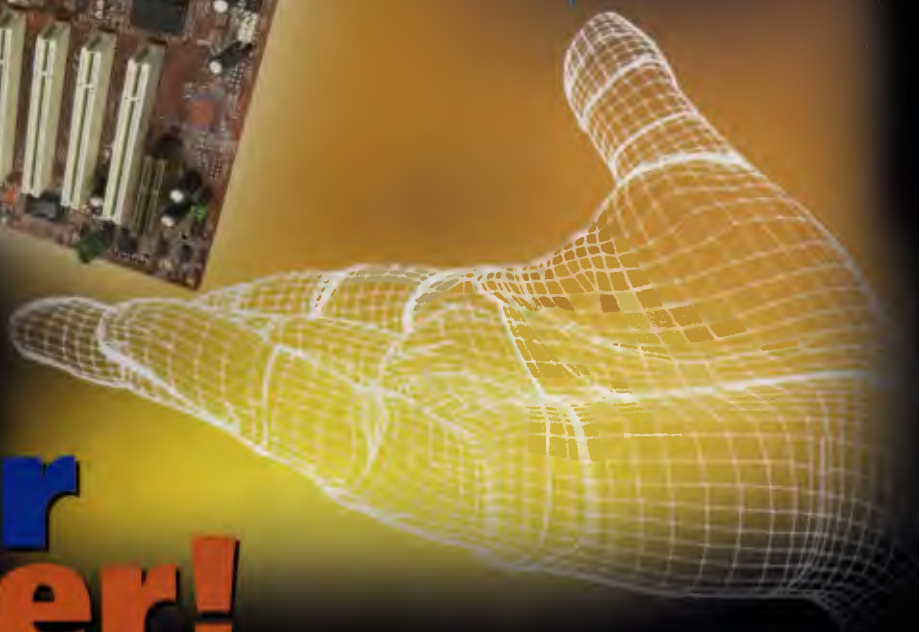
TELEADAPT



www.teleadapt.com

It's always good to find Web sites that go beyond brochure-ware. This one is a must for tech-travellers. The hands-on Foreign Travel 101 guides help you get and stay connected anywhere in the world. It's a little too focused on the US, and on links to TeleAdapt products, but the info is pure gold, especially the sections on conquering troublesome hotel phone systems.

David Flynn



Star Power!

It takes power ideas to create power products.

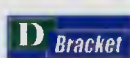
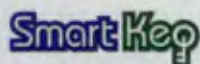
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845 Ultra-A

- support DDRAM
- support P4 socket 478 CPU
- Intel 845D chipset
- promise ATA133 (optional)
- promise Raid (optional)
- USB 2.0 (optional)

K7N420 Pro

- support DDRAM
- support AMD AthlonXP
- support upto 3Gb RAM
- Nvidia Crash12+MCP-D
- onboard VGA and sound
- Dolby-digital SPDIF out
- TV-Out (optional)



645 Ultra

- support 333Mhz DDRAM
- support P4 socket 478 CPU
- SIS 645 chipset
- onboard sound
- 645 Ultra (MS-6547v1)



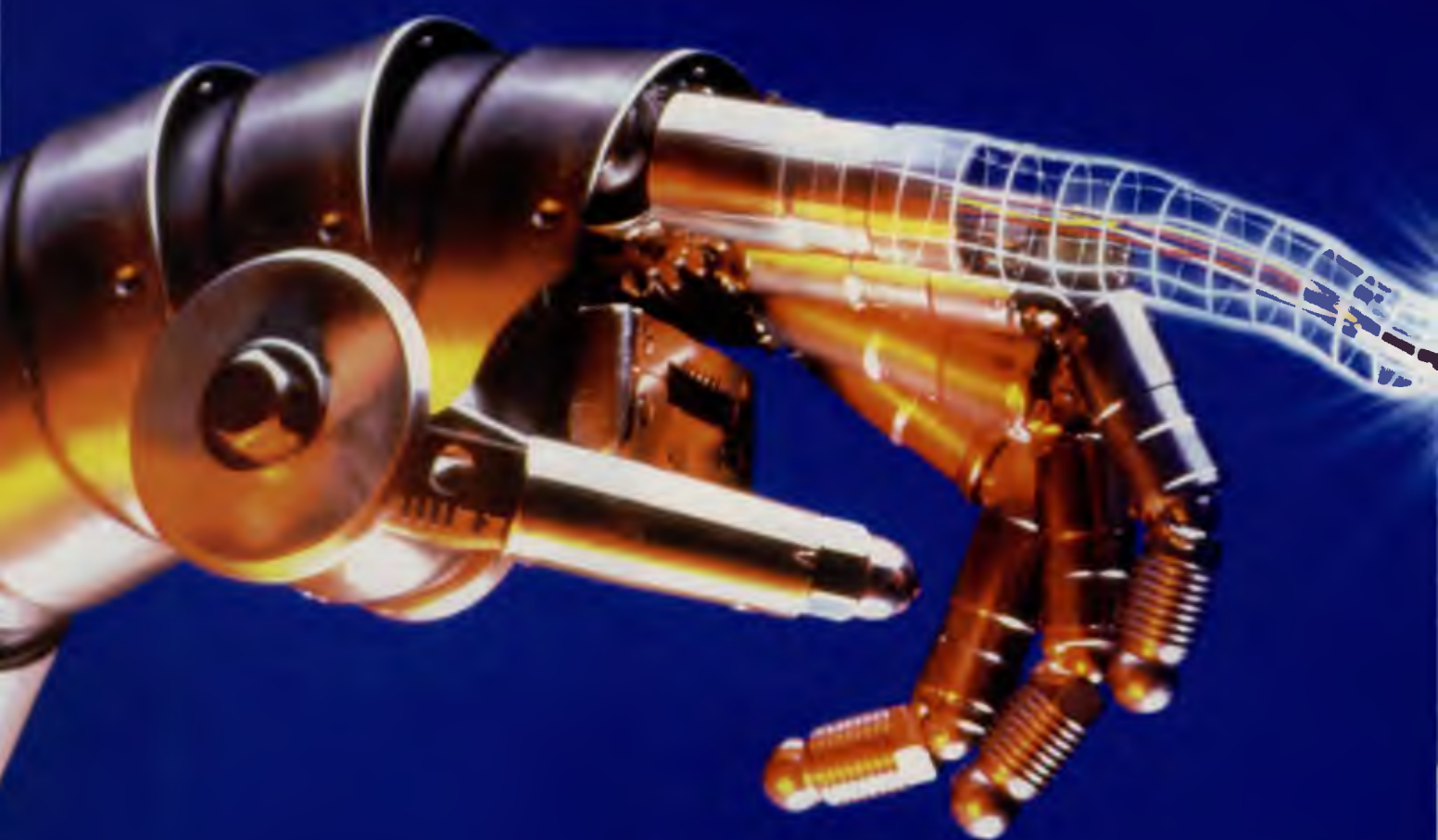
K7T266 Pro2-RU

- support DDRAM
- support AMD AthlonXP
- KT266A chipset
- Raid (optional)
- USB 2.0 (optional)



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LINUX HAS THE UNCANNY
ABILITY TO MAKE OLD MACHINES
RUN (ALMOST) LIKE NEW.
DISCOVER HOW TO TRANSFORM
YOUR OLD COMPUTER FROM
DOORSTOP TO DIVA.

DIGITAL REBIRTH



BY MATT OVERINGTON





BRING YOUR OLD COMPUTER BACK TO LIFE WITH THE HELP OF A SPECIAL SOFTWARE SAVIOUR — LINUX.

It's often been said that a computer is obsolete the day you buy it. However, just because your computer can no longer keep up with today's software, it doesn't have to go on the scrap heap.

Modern computer and peripheral hardware has been increasing in speed at an exponential rate. When Intel released the 2GHz Pentium 4 in 2001, one of the main comments from the marketing department of the semiconductor giants was that "it took Intel 20 years to reach 1GHz, and 12 months to double it".

Operating systems have also been developing at a rate that reflects the availability (and popularity) of hardware developments. While this rapid increase in technological capabilities is extremely exciting, and is paving the way for further developments, relatively expensive collections of silicon, gold and copper drop in value extremely quickly. A top-of-the-line Pentium machine would have set you back around \$4,000 in 1995; yet six years later you would be lucky to get \$400 for it — even in "as new" condition.

STALE CHIPS

Many of us have a spare computer gathering dust in one corner of the study, or even several leftovers from upgrades over the years. You've probably relegated these relics to spending the remainder of their days in the garage.

During a cleanup of the APC Labs, we managed to find an old Pentium 200MHz machine with a whopping 64MB of RAM and 540MB of hard disk space sitting neglected in a dark corner, and decided to resurrect it using Linux. Linux has several benefits over Windows in that it is modular (you can really save a lot of space by only installing the elements that you wish to use), and is much less demanding of hardware than its Microsoft counterpart.

REQUIREMENTS OF LINUX

Although you can run the core Linux code on virtually any machine from a 386 onwards with 8MB of RAM and a 40MB hard disk, like other operating systems, performance is improved with more RAM and a faster processor. The kernel itself is extremely efficient and doesn't require much in the way of raw processing power, but running extras such as a GUI (graphical user interface) requires processor power and RAM.

You'll need 64MB of RAM if you intend to use the GUI interface for the majority of the time that you are in front of the computer. Given that the vast majority of modern computing is done under a GUI, you will probably be most comfortable getting a desktop program like KDE or Gnome running on your Linux box. Although seasoned Unix and DOS fans will feel least out of place with the Linux command line

interface, all but the most dedicated keyboard users will revert to an X desktop of some kind.

Most modern Linux distributions come with X support, and include a selection of desktops that can be chosen during installation. Distributions from the German Linux company SuSE tend to favour KDE, whereas Mandrake and RedHat default to Gnome and SawFish. Although there is little difference between the various GUIs for Linux, some applications are compiled for specific implementations of X, so you have to be careful about which one you use. As a rule of thumb, either KDE or Gnome will work with most applications.

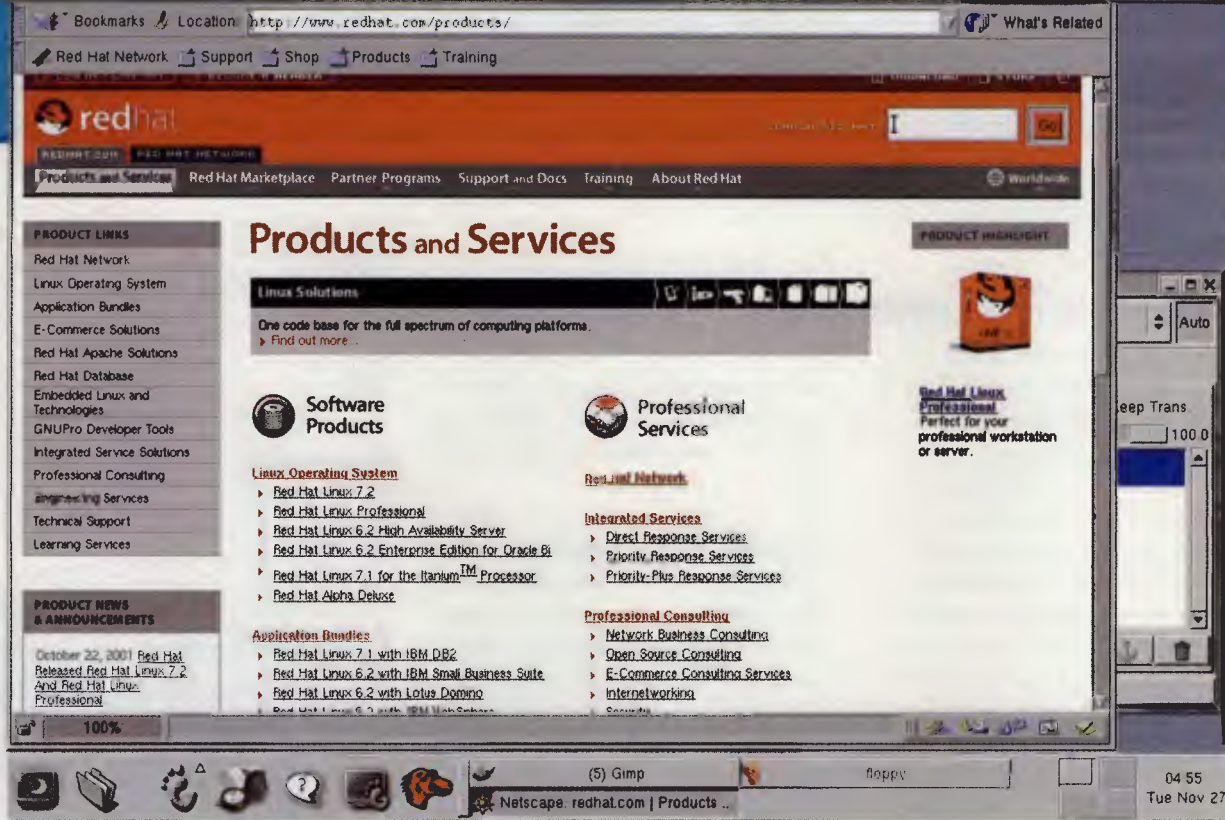
BUT WHY LINUX?

The reasons to resurrect an old machine using Linux are plentiful. You can use it as a gateway to share an Internet connection between a number of faster computers. It can be put on the desk of a child for typing assignments and playing games. Or you could do it simply to learn a different operating system.

People with experience in a range of operating systems will obviously have an advantage over those that don't when it comes to computing. As computers become more integrated into our society in the future, the ability to work in two operating systems will serve you well.

REDHAT 7.2

After actually deciding to take the plunge and install Linux onto an old system and making sure you have an aged yet functional machine to



► RedHat 7.2 is a good distribution to use as an introduction to Linux as its simple installer and large bundle of software suits novices.

install it on, the next step is to find a distribution that will work for you. Although there are countless Linux flavours available, we chose RedHat for a variety of reasons.

The primary reason is that it is extremely popular — this means there is good online support in user forums, and many applications are available for RedHat precompiled, lessening the amount of new tasks that a first-time Linux administrator must learn.

RedHat also comes with a variety of graphical desktop applications, and the bundled package list is extensive. If you have a broadband Internet account, you can download version 7.2 from www.redhat.com; otherwise, we suggest purchasing the most stripped-down version available (RedHat Linux 7.2 Official, at \$35).

Our test computer featured a Pentium processor, 64MB of RAM, and a relatively large 540MB hard disk. Half a gigabyte will only store approximately one quarter of a full RedHat installation, but most of the extra RPMs are applications that are unnecessary for the tasks chosen for our Linux box — gaming and some Net surfing.

The RedHat installation application is wizard-based, bearing a passing

resemblance to the Windows installer by automatically detecting hardware and guiding you through the configuration of basic settings, including date and location. We opted for a full, graphical installation, defaulting to the Gnome desktop environment. This gave us the advantage of being able to use a GUI to configure and work in Linux, which broadened the number of programs we could run.

After choosing the applications that we wanted installed (including some games, Web applications and media players), we still had around 100MB of hardware space available for temporary files and data. This installation, although somewhat minimal, still included a GUI and plenty of applications to keep us occupied. Always present is the temptation to install more applications than you can possibly use, but in this case we were limited by the available hard disk space.

GAMES

One of the biggest advantages of using Linux for gaming is the availability of open source and freeware games. Not having to pay for games means that you can afford

to collect a lot more of them — which appeals to those with a short attention span.

As an operating system favoured by hard-core geeks, the games available for Linux tend to reflect the tastes of the coding community from which they are spawned, which is generally moving away from mainstream game developers.

There are many puzzle games available in versions for Linux, and games such as chess, checkers, Minesweeper, Towers of Hanoi and Tetris can also be found in a variety of open-source versions. id software is one of the first major software companies that has broken this trend by releasing its much-anticipated Return to Castle Wolfenstein in a native Linux format.

Many classic arcade games of the 1970s, '80s and '90s have been ported to Linux, and games like 3D Pong, Penguin Command (a clone of the classic Missile Command), Atomix, and FreeCiv (a freeware clone of Sid Meier's epic strategy game Civilization) are available for free download. Relatively small file sizes mean that most Linux games can be downloaded via a dialup Internet connection.

GAMING WITH LINUX

One of the best reasons to drag a computer out of retirement and back into the fray of daily use is for entertainment. While games for the Windows platform make tremendous leaps ahead in visual and auditory content, the demands placed upon the hardware that is rendering all the polygons generated by Max Payne or Unreal Tournament mean that all but the newest and most powerful of machines are left struggling. Games developed for Linux, on the other hand, tend to focus more heavily on gameplay instead of fancy sound and graphics. As a result, there is a large number of simple, yet highly playable and addictive games available for Linux.

There is a variety of good online databases of Linux games, all containing hordes of games for you to download. Some of the games are classics, and a few are eminently forgettable, but almost all of them are free. While games for the Windows platform range from \$50 to more than \$100, Linux has remained untouched by large-scale game developers. This means that most games currently available for Linux aren't extremely demanding of hardware — many will run on a 486, and most will

perform smoothly on any machine above a Pentium. An excellent way to start looking is by following the links from www.linux.org/apps, where games are listed by genre.

GAMING FOR THE MIND

The largest collection of games for Linux falls under the general banner of "puzzle" games. Open source versions of many Windows classics like Sokoban and Tetris have been ported across to Linux, along with several excellent versions of chess and checkers. Because puzzle games tend not to rely heavily on displaying impressive graphics and sounds, they tend to be relatively small, and are easily downloaded via a modem connection. If you are limited by hard disk space (as you probably will be if you are using an old machine), then downloading several small games will generally provide more entertainment than using all the available disk space for a single large one.

A variety of educational games are also available, including typing tutors, physics programs and spelling games. One of the best available is Tux Typing (www.geekcomix.com/dm/tuxtype), wherein you guide the Linux penguin, Tux, by spelling falling words using the keyboard.



► You're not limited to shooting and puzzling; outstanding educational games such as TuxTyping are available for Linux.

Puzzle games

Sid Meier's Civilization is one of the most-played computer games in history. It was one of the first computer games to be popular among women as well as men, and its sequels are still being released (Civilization 3 was only released in 2001). An excellent open source Linux version is available for free download from FreeCiv (www.freeciv.org).



Arcade games

There is no end to the supply of arcade games available for Linux. Free ports of popular games from the 1970s and '80s dominate Linux game sites online, and versions of Pac-Man, Tetris and Tron can be downloaded and running within minutes. An early game ported across several platforms was Snake. It later became known as Nibbles and a GNU version comes with many distributions.



RPGs

Role-playing games have classically been the realm of geeks and nerds, many of whom eventually grew up to become programmers. As a result, the supply of role-playing games available for Linux is healthy. Among the best is Hopkins FBI, an M-rated adventure game similar to the Sierra Police Quest series for DOS. Find it at www.hopkinsfbi.com.

EXTRAS

Linux machines are by no means limited to running as Internet gateways or gaming machines. A wide range of extra software is available including word processors, image editors, MP3 players and spreadsheet applications, and can help turn a Linux box into a useful tool. Basic productivity applications can be downloaded and installed for the purposes of keeping track of home finances or for the composition of school assignments. If the machine you intend to use for a Linux box has a soundcard, you can even integrate the computer into your home entertainment system for use as an MP3 audio player.

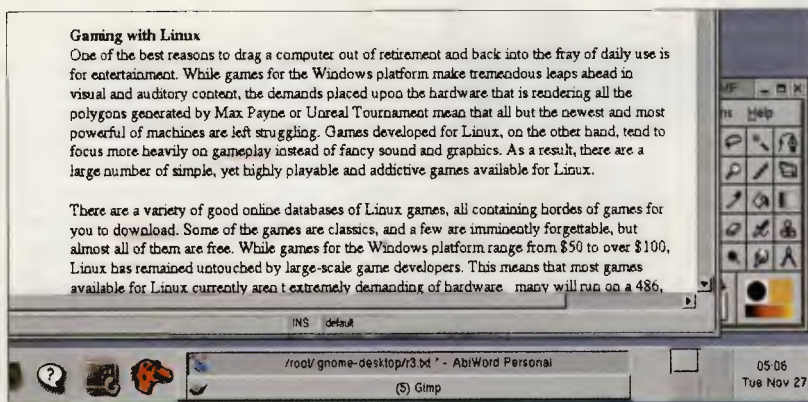
WORK AT HOME

If your Pentium machine is having trouble keeping up with modern productivity suites like Microsoft Office, then you may be better suited to scrapping the Microsoft versions in favour of lightweight packages for Linux. While Word and Excel are extremely rich in features, and capable of producing professional spreadsheets and documents, they are usually overkill for most homes — and even many offices. Instead of setting young children down in front of the extremely complicated and powerful interface of Microsoft Word, AbiWord maintains a

lot of the basic functions of Word, but without the extra tools. AbiWord runs quickly on a Pentium with 32MB of RAM, and includes a comprehensive spellchecker and font support. Many of these Linux word processors are also compatible with even the latest versions of Microsoft Word.

INTEGRATE INTO YOUR HOME AUDIO

A 486 will struggle with the playback of an MP3, but a Pentium or above should have no problems decoding and playing songs in MP3 format. Provided you have the processor power and sufficient RAM (32MB will suffice, although 64MB is preferable), there is no reason why a Linux box cannot be set up next to a household stereo system to act as an MP3 player. The biggest problem with using a Linux box as an MP3 player is that you are often limited by hard disk space. As IDE CD-ROM drives are relatively inexpensive (they start at around \$50), you can always purchase a CD-ROM drive for your Linux box and use a CD-R drive to record CDs full of MP3 files. Alternatively, you could connect your Linux box to a network inside your house and access MP3s directly from another computer over the network.



► If your Linux machine is called upon for work, programs like AbiWord are adequate substitutes for Windows applications.

XMMS

Although most Linux distributions come with a functional MP3 player, very few match the simplicity and flexibility of XMMS. Similar to WinAMP in layout and execution, XMMS is compatible with MPEG layers 1, 2 and 3, WAV/AU and CD audio, and as it relies on the MikMod sound library, it also plays many formats based on the Amiga MOD audio file format. Find it at www.xmms.org.



GIMP

The stripped-down interface belies the Photoshop-like power of this little image-editing application. GIMP is by far the best picture editor for Linux (and many say for the PC outright). Written as an open source project and distributed with many commercial flavours of Linux, a Linux box is incomplete without the GNU Image Manipulation Program. Find it at www.gimp.org.



StarOffice

A wide range of productivity applications can be found for Linux, almost all of which are less demanding of system resources than their Windows counterparts, although many sport stripped-down feature sets. The all-time favourite amongst Linux users is StarOffice, which is extremely similar to Windows' Microsoft Office in terms of productivity applications, and features full Office-compatibility. It can be found at www.sun.com/staroffice.

NETWORKING

Another excellent application for a low-spec Linux box is using it as a central hub for your network. You can install DHCP services on it quickly and easily, meaning that any computer that you want to add to your network simply has to be plugged in and turned on. If you find yourself regularly hosting network gaming sessions, or simply want to add a level of functionality to your home network, then running a dedicated Linux DHCP server at the hub of your network will be of benefit. You can even add a second network card or modem later, enable DNS and IP-forwarding, or use the Linux box as an Internet gateway with a minimal amount of extra configuration.

DEALING THE CARDS

In order to connect a few computers using Linux, you will first need to ensure that the computers at least have the capability to talk to each other. The first thing to do is to make sure that your Ethernet card is working. To do this, type:

```
ifconfig eth0
```

If everything is configured and functioning normally you will get a list of the details for the card, including Interrupt, base address and information on packets that have been sent and received by the card. If there is an error and the kernel is not recognising the existence of the network card, you will receive an error message reporting that the device has not been found. Generally the RedHat installer will find most common network cards, but it is possible that you have an unsupported card installed in your machine — especially if it is an old one.

If this is the case, then you will need to explicitly give the details of the network card to Linux, so it can successfully locate and address the card. Check in the `/proc/pci` file to see if your network card is supported by default — most PCI cards are. Generally speaking, you will have to edit the configuration file (`/etc/conf.modules`) and provide the exact settings that your network card is using. Using a text editor, open the `/etc/conf.modules` file and add the following lines:

```
alias eth0 ncard
options ncard io=0x300 irq=10
```

It just so happened that the network card that we were using was installed on IRQ 10 and with the base address of 0x300 — as in the second line of code. This will vary based on the individual settings for your network card. Detailed information on the settings can be found on your network card manufacturer's Web site, or in the manual for your card if you still have it. If you are using a PCI card, there is a good chance that it will be supported natively by Linux. We have told Linux to look for an Ethernet card named `eth0`, with an address of 0x300 and IRQ address of 10. After you have finished configuring the `conf.modules` file, run `ifconfig eth0` again and check to see if Linux can now address the network card successfully.

CONFIGURING YOUR NETWORK

After ensuring that your network card is working properly (you will have to follow the same steps and configure the network card for each machine running Linux that you want on the network), you will have to configure the network itself.

There are several methods for doing this, based on whether you want to use static or dynamic IP addressing for the computers on your network. Generally speaking, a dynamic network will be beneficial, as new computers can be added to the network with a minimum of configuration.

The first step that needs to be taken is enabling Linux networking. Add the line `"NETWORKING=yes"` to the file `/etc/sysconfig/network`, which will enable the network card at the time of booting. Assuming that you are using RedHat, all the configuration settings for the networking features are found in the `/etc/sysconfig/network-scripts` directory. In that directory, you want to create a new script that will enable your Ethernet card during boot and assign it an IP address. Using a text

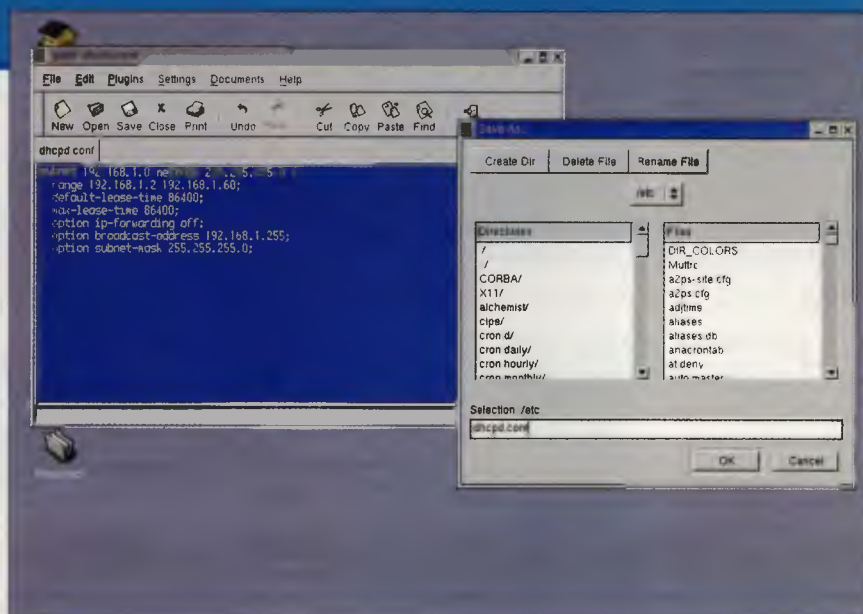
A DIFFERENT COLOURED HAT?

If you can't install Redhat Linux onto your system for some reason, or if you have another flavour of Linux you'd like to use in preference, the steps outlined here will vary only slightly. Redhat is an excellent distribution for Linux 'newbies', as a wizard-based installer is included to minimise any installation hassles, although several other distributions include similar installation software. SuSE's YAST2 installer is comparable to Redhat's, and SuSE's in-depth manual will help most Linux newbies overcome any difficulties.

Keep in mind that if you go with Slackware or Mandrake, although your installation and configuration options are more powerful, they are also more complex, and it is easy to become unstuck. Unless you are confident that you can install Linux and configure it manually, APC recommends that you stick with either Redhat or SuSE.



► Edit the `dhcpd.conf` file using a text editor like `gedit`, and save it in the `/etc` folder.



editor, write the following lines to a new file, and save it as `ifcfg-eth0`:

```
DEVICE=eth0
IPADDR=192.168.1.1
ONBOOT=yes
```

You can also reset the network without rebooting Linux by typing `/etc/rc.d/init.d/network restart` at the console.

CONFIGURING DHCP

Assuming that you now have your network card properly configured and an address assigned to it at the time of boot, you are just about ready to set up the DHCP server that will assign IP addresses to all the client computers on your network, regardless of the operating system they're using. You will need to install the DHCP client from your RedHat CD.

This assumes that you know how to install Redhat Package Managers (RPMs) — see your distribution documentation on how to install RPMs (and for the location of the DHCP client on your installation CDs). After DHCP has been installed, you will find a file called `dhcpd.conf` in the `/etc` directory. You will need to add the following lines to your freshly created `dhcpd.conf` file:

```
subnet 192.168.1.0 netmask
255.255.255.0 {
    range 192.168.1.2 192.168.1.60;
```

```
    default-lease-time 86400;
    max-lease-time 86400;
    option ip-forwarding off;
    option broadcast-address
192.168.1.255;
    option subnet-mask 255.255.255.0;
}
```

Say you've got a range of 60 computers on your network. If you plan on integrating Windows machines with your Linux network, then you will need to add a command to your `/etc/rc.d/init.d/dhcpd` file. Look for the line that reads `/sbin/route add -host 255.255.255.255 dev eth0` and make sure that `eth0` is listed at the end of the line. If not, add it. You will also need to make sure that your Ethernet card is the default device — do this by opening the file `/etc/rc.d/init.d/dhcpd` and replacing the line `daemon /usr/sbin/dhcpd` with `daemon /usr/sbin/dhcpd eth0`.

The next step is to ensure that the DHCP server is started every time Linux is booted by entering this command in a terminal window: `chkconfig dhcpd on`. You can finally reboot to start the DHCP server, or reset it at any time by typing `/etc/rc.d/init.d/dhcpd start`.

CONFIGURING YOUR CLIENTS

After you reboot, the DHCP server will be operational, and the next step is

to connect your client machines to the server. If you are using Windows on the clients, then all that you need to do is make sure that the TCP/IP protocol is configured to use a DHCP server to assign the IP. Open the Control Panel and select Networking. Go to TCP/IP and select Properties. From here you simply need to select the option "Obtain an IP address automatically" and reboot your Windows computer. It should be assigned an IP upon boot (most probably 192.168.1.2 if it is the first computer to be plugged into the network other than the server).

The easiest way to make sure that your network is working is by opening up a terminal window either under Linux or Windows and typing `ping 192.168.1.1`. If your network is working correctly and your DHCP server is up, then you will get successful ping responses. Configuring any machines on your network to connect to the DHCP server is similarly straightforward — simply type `dhcpd` in a terminal window. This is supplied in the DHCP RPM. If you are running kernel 2.2.x or later, you will need to use a more recent client, called `dhclient`. Although `dhclient` is provided with RedHat 7.2, it can be downloaded from www.isc.org. To see if you have either client installed, type `which dhcpd` or `which dhclient` at the terminal window. ■

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CE-61BKCL	SO20138	STYLUS Colour 300 4-Colour	\$31.00
CE-65BK	SO20187	STYLUS Colour 440/640/660 Black	\$16.00
CE-66BK	SO20189	STYLUS Colour 740/760 Black	\$16.00
CE-67CL	SO20191	STYLUS Colour 440/640/660/740/760 3-Colour	\$26.00
CE-68PCL	SO20193	STYLUS Photo 750 5-Colour	\$33.00
CE-69CL	T003011	STYLUS Colour 900 Black	\$19.00
CE-70CL	T005011	STYLUS Colour 900 Colour	\$24.00
CE-71PCL	T001011	STYLUS Photo 1200 5-Colour	\$29.00
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XP CHALLENGE

WHAT HAPPENS WHEN WINDOWS XP GOES HEAD-TO-HEAD WITH 2000 ON A VARIETY OF HARDWARE CONFIGURATIONS?

I am unquestionably an "early adopter." I was one of the first people in my circle of friends to own a CD player. Back when laser discs were unknown except in videophile circles, I scratched together some cash and picked up a Pioneer laser disc player that's still running. I latched on to DVDs when the first generation drives and players were appearing. And, yes, I was one of the first people I knew of to move to Windows XP. I haven't regretted it — much.

Note that qualifier. Truth be told, when I moved from Windows 95 to Windows NT 4.0, I said almost the same thing. There were a few key pieces of hardware that I simply could not get device support for in Windows NT 4.0, such as the Turtle Beach soundcard I used for making music. Eventually, everything was supported and I could quit dual-booting (and bellyaching).

The same thing happened all over again with my migration from Windows NT 4.0 to Windows 2000. Almost everything I had was supported, the sole exception being a UMAX scanner, which I still use — and I was able to get that to work by installing the NT 4.0 driver. As you'd imagine, I was in similar straits when I upgraded from 2000 to XP, although I set up my system to dual-boot between XP and 2000 at first. Amazingly, after I did this, I didn't boot back to Windows 2000 once. Except for

a problem with my soundcard, which was easily dealt with, I had everything running in XP in jig time.

The early adopter philosophy is an interesting one — the people who entertain it are for the most part technology bugs. They love to play with stuff and see what happens. They ain't afraid of nothin'. They'll put their own systems on the line (after backing up their data religiously, of course) to try out the newest wrinkles in hardware, operating systems, software, gadgets and gizmos, you name it. We love it. To know someone out there is having fun with the newest, latest and greatest goodies and we're not — that's almost an affront! And it was in that spirit that I sunk my teeth into Windows XP.

A FEW DIFFERENT HORSES

For perspective, here is a quick rundown of the hardware I've been using with XP. I've used all of it with both XP and 2000, and found some results differed between the two.

First I tried a generic Pentium III 650MHz notebook with 128MB of RAM, and found both XP and 2000 work fine. XP's ClearType display rendering doesn't work correctly on this machine's LCD display for some reason, and I've found a couple of other off-brand displays have the same effect. I suspect this has to do with the way the RGB elements are ordered, and in theory

this is something that should be fixable with software, but Microsoft has chosen not to comment on it. I don't use ClearType for the most part, anyway, as it slows things down noticeably. XP boots distinctly faster than 2000 on this machine, especially as it doesn't have the fastest notebook drive around. Having 128MB of RAM seems to be the baseline for good operations in both XP and 2000, so that hasn't changed.

Next, I loaded XP on a Compaq Presario 7000 Athlon 1.1GHz desktop machine with 512MB of RAM. This is my main desktop machine, and it's crammed to the gills — more than 100GB of storage, FireWire, SCSI, CD-RW and DVD-R drives, Zip disk, moon roof, you name it. XP was a little slower than 2000 at first, but with some tweaking and selective disabling of features I didn't need (mostly eye candy), it really started to take off. Upping the memory from 256MB to 512MB didn't affect most day-to-day operations, but really memory-hungry tasks like video editing got a boost from XP that 2000 didn't seem to have.

One big problem I encountered with this machine was suspending-to-disk, or hibernation: the restore process was so agonisingly slow that it was faster to reboot the machine! Word has it that this stems from a bug in the BIOS that places the machine in the wrong ACPI mode at startup, but patching the BIOS didn't seem to fix the problem. Compaq has some of the worst Web site support of any manufacturer I've dealt with; it's next to impossible to



► ZoneAlarm stops attacks from outside as well as trojan horse programs that try to "phone home" from your PC.

find anything. That didn't make my search for answers any easier.

Next, I tried a Dell Dimension Pentium 4 with 256MB of RAM. Good overall results were achieved with this machine; Dell machines are some of the most reliable and consistent workhorses out there. Both 2000 and XP installed and ran fine, and even the video card didn't pose any challenges. In general, brand-name hardware produces better results.

As I'm a former 2000 user, I made constant comparisons with 2000 as I used XP. I did a quick run-through of the major areas where XP has 2000 beat (to say nothing of Windows 9x). Some of these things didn't surprise me; some of them did.

STABILITY

So far I haven't had a single Blue Screen of Death (or BSOD, in Windows parlance) since installing XP. When I was running 2000, I had had a couple of them, thanks to improperly debugged kernel drivers. With XP, nothing of the sort happened, not even on my no-name laptop, for which I couldn't even get a BIOS update. However, not everyone's luck will be as good as mine — see "Compatibility problems" for more on that score.

SAFETY

This is something of a mixed bag, I have to admit. Microsoft tried to make XP safer and less vulnerable to attacks than previous versions,

thanks to things like the Personal Firewall, which even Microsoft admits is no substitute for a real commercial product. It's not bad, but it isn't very flexible, and in the long run you're better off making XP safer by adding something like ZoneLabs' ZoneAlarm version 2.6, probably the best free personal firewall product around.

MULTIMEDIA

No question about it, XP has it all over 2000 and Windows 98 when it comes to multimedia. Not just in terms of device support, because all three platforms are more or less on an even footing when it comes to what devices you can use. The big difference is that XP support is integrated in various low-level ways.

For instance, plug in a camera and you're prompted with options for what to do with it: run the XP picture-extraction wizard, run another program, browse the camera, do nothing and so on. You can also change the choices after the fact: if you install another application, you can reset XP to use that application instead, if it doesn't reclaim associations to the device automatically.

This is a great idea, and it's implemented well in XP. It actually has utility, unlike many of the "features" that are dreamed up. Recently I hocked some old computer hardware on eBay, and one of the cardinal rules of selling on eBay is that pictures help make a sale. I grabbed up my UMAX AstraCam 1800, snapped pictures of everything, plugged it in, and within two minutes

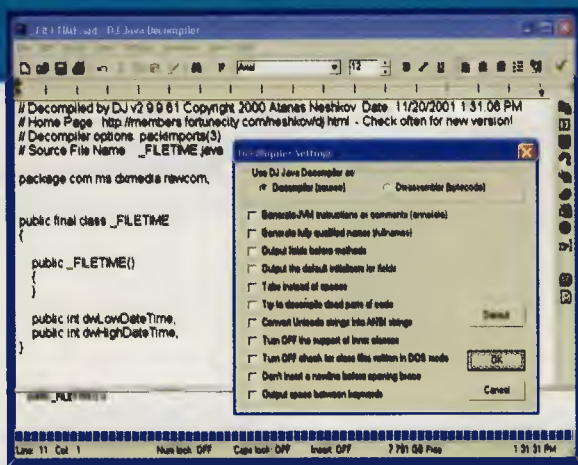


► If it's out there on the Web, Copernic 2001 can find it by aggregating searches from all the popular search engines into one handy indexed view.

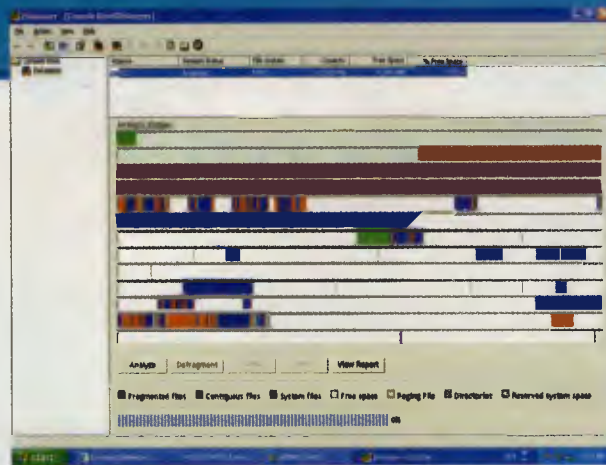
had the images on my desktop, ready for uploading. This is what computers should be all about. The picture viewer included with XP is nice enough, but for something a little more robust, try IrFanView 3.51, a free image viewer, which also has some limited editing facilities (such as image cropping).

The same goes for DVDs. I'm a movie lover; I collect DVDs incessantly, and I watch more movies on the PC than I do on my home entertainment centre — partly because the resolution on my TV isn't anywhere nearly as good as my computer monitor, and also because more and more DVDs these days come with extra features that work on a PC. One of the very first things I did when I got XP running was to play DVDs on it.

XP doesn't come with built-in DVD decoding, but you can add it in a variety of ways if you have a hardware decoder (increasingly rare), or if you have a software player like WinDVD or PowerDVD that installs a filter driver. Microsoft plans to make a decoder that integrates into Media Player (of course) for about US\$15 (AUD\$29). But if you've added one of the above programs, Media Player can use its filter driver for DVD playback. The results are a lot like what happens when you pop in a CD and play it with Media Player — you get chapter titles, merchandising links and other metadata (like cover art). I confess I don't use Media Player as my player of choice — WinDVD 3.0 — but I like the way something this



► The DJ Java Decompiler turns JAR and CLASS files back into easy-to-read source code.



► Diskeeper defragments files that Windows normally can't move — but it requires a reboot to do so.

relatively common is now made that much more common by the association with Media Player. If you're curious about WinDVD, I recommend trying it out — see www.intervideo.com for a trial version.

As much as I enjoy the ride with XP, not everyone I know is similarly pleased. And they've got good reason to be annoyed: some of them sacrificed a good deal of time and attention to get XP running, and encountered one barrier after another. XP has attracted criticism on a variety of grounds, all of which I'll address here, point by point.

COMPATIBILITY PROBLEMS

This is one of those issues that comes down to individual experience. I have had good experiences using many different machines with XP — slightly better, in fact, than with 2000. The biggest problem areas are video cards and motherboard controller chipsets — two types of hardware for which drivers are often flaky and erratic.

The motherboard controller chipset about which I've heard most complaints is Via, and this doesn't surprise me. When I used Windows 2000 on a Via-motherboard Gateway, I had problems with everything from the soundcard to the disk controller. Adding Via's "four-in-one" drivers alleviated the problem, but not completely; it took moving to a new machine to really work things out.

Video cards, especially those with an nVidia chipset (which is probably the most popular video controller on

the market), are also hit or miss.

My Compaq's native XP video drivers worked fine, but when I tried to upgrade to nVidia's drivers, XP refused to work properly with them and booted into SVGA "safe mode". I suspect this has a lot to do with Compaq's nVidia controller being an OEM product — in other words, you need to get drivers for it from Compaq, not nVidia. But other people have experienced problems that are no less thorny with more mainstream cards. I was eventually able to get it working, but only after a Windows Hardware Quality Labs-certified version of the driver was published.

Oddly, some of the most exotic hardware, such as DV cameras that use the 1394/FireWire interface, work perfectly. It's some of the more mundane devices that become exasperating.

The problems don't end with hardware, either. XP is much more compatible with DOS and Windows 9x-based games than 2000, but it still isn't perfect. XP can run any program in emulation mode — meaning the program thinks it's running its required OS, while XP does all kinds of behind-the-scenes tomfoolery to keep up the illusion. Sometimes this doesn't hold up, and the program in question bombs anyway. As I'm not a gamer, most of the programs I used ran without incident, but my more game-addicted friends were frustrated by some applications, such as the Nintendo emulator NESTicle.

FISHER-PRICE INTERFACE

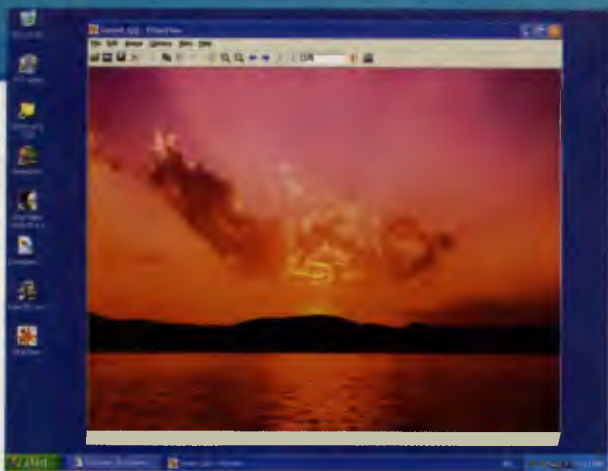
XP's interface has often been likened to the toy company's brightly coloured playthings, designed to be easily understood and used by children. The implication is that Microsoft is being condescending through its interface design. I'm not convinced by this argument for three reasons.

One, the interface is no less functional than it ever was (with a few exceptions, mostly due to the differences between XP and 2000). You can still do everything you need to do — in fact, you can do much more.

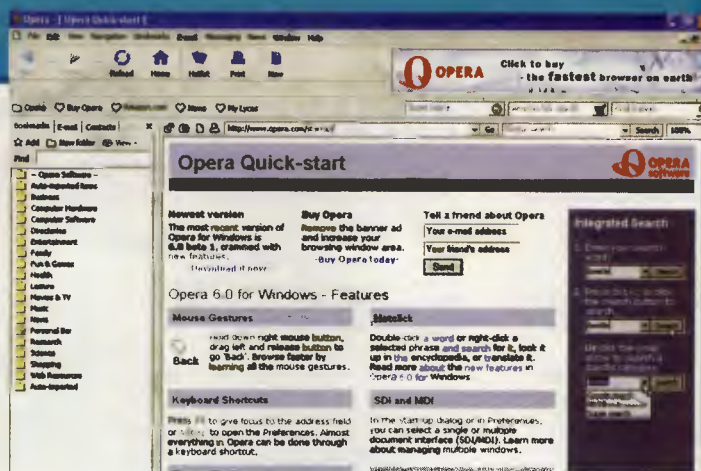
Two, we spend a lot more time staring at computer screens than ever before. If I'm going to spend the better part of my day looking at a computer screen, I'd prefer it to be as attractive as possible.

Three, if you don't like the revised interface, you can turn it off. What's more, you can turn it off selectively — you can shut off individual things that drive you nuts, like the animated/scrolling menus (my least favourite feature) or the drop-shadow on the cursor. You can also revert to the original Start button, if that's your cup of hot chocolate, although having tried the new Start button, I know I'm happier with it.

If you want to hack the XP interface in ways not directly available to the end user, you can try out the Microsoft PowerToys for Windows XP package, which includes an XP-specific version of the TweakUI program. If that doesn't provide enough power for



► A free replacement for Windows' quick-and-dirty image viewer, IrfanView also allows cropping and resizing.



► The world's fastest Web browser? They're not kidding. It's also the smallest, and eats up the least amount of memory when running.

you, go a step further and check out a program by StarDock called WindowBlinds, which lets you customise everything in the Windows interface.

PRODUCT ACTIVATION

This is the single most widely discussed and most controversial feature of XP. You can't even talk about XP without discussing PA. While Product Activation was nothing new — it was already featured in Office 10 in a slightly different implementation — XP marks the first time PA has been used on a whole platform as an anti-piracy measure. Because of this (not to mention the pricing of Office in the first place), many people have gone looking for Office substitutes. I recommend 602Pro PC Suite 2001, a cheap and full-featured Office substitute that does almost everything you can think of.

Worth noting first is the fact that I have seen no evidence that PA sends any kind of personally identifiable information to Microsoft. The total string sent to Microsoft from your machine during the activation process is no bigger than 64 bytes, is security-hashed, and isn't long enough to contain anything personally identifiable anyway. Of all the things to worry about with PA, this isn't one of them.

The biggest problem I have with Product Activation is that people who really want a copy of XP without paying for it are still able to get it. There is no way to stop

them without adopting draconian protection measures. I know at least two ways to circumvent PA completely — one involves obtaining the volume-licensed edition of XP, which is available openly in the Microsoft Developer Network kit, and another involves replacing key XP components with components from the volume-licensed edition.

The licensing schemes for XP are more rigid than for previous versions of Windows — this is basically a way of enforcing the one-copy-per-PC licence. There are ways to ameliorate this slightly — basically, if you buy more than one copy of XP, Microsoft offers a multiple licensing arrangement, but you save no more than \$10 per copy (see shop.microsoft.com/referral/productinfo.asp?siteid=11052 for an example of how this works with XP Home).

Existing Windows 2000 users are a little confused about the upgrade path from 2000 to XP — specifically, which editions of the product they can (or will need to) buy in order to upgrade their Windows 2000 machines. XP Home cannot be used to upgrade an existing Windows 2000 installation, and you can't use Windows 2000 as a qualifying product for XP Home's Upgrade Edition either. You need to buy either the full version of XP Home or the upgrade version of XP Pro's, both of which cost \$463. The full version of XP Pro, which requires no existing products to install, is \$675.

XP: WHO NEEDS IT?

Then there are those people who see no real benefit in upgrading to XP. People using Windows 2000 are already reaping many of the under-the-bonnet benefits that XP provides. The XP kernel is the NT/2000 kernel; the differences between the two are fairly minimal compared to the differences between NT/2000 and Windows 9x (and Windows Me). One important difference is that 2000 can't be used to upgrade Windows 9x, while XP Home can. This is significant because many people are loathe to wipe their system clean and then start from scratch.

On top of all this, there are those who simply don't have the system to support Windows XP. Anyone with 64MB or less shouldn't even think about trying XP. I should know; for fun, I yanked half the memory out of my laptop and tried it with XP. The end result was so excruciatingly slow that I turned off the machine before I finished logging in! I don't blame anyone with less than 64MB for rejecting XP out of hand. However, a number of computer retailers are offering free 128MB memory upgrades with any purchase of Windows XP, which makes a lot of sense.

In the end, I find myself more pleased with Windows XP than I expected to be. It isn't completely free of trouble, and PA is a thorny issue, but for me, the bad outweighs the good. I'm glad I was one of the few to get there first! ■

SERDAR YEGULALP is a specialist in the Windows platform and was the senior technology editor of Windows Magazine until 2001. He publishes the weekly Windows 2000 Power Users newsletter at www.win2kpowerusers.com. He can be contacted at serdar@thegline.com.



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S2047(B) Epson Stylus Color 200/111/820	\$5	P3, ASUS TUSI-M	\$147
S2049(C) Epson Stylus Color III/111/820	\$5	AMD, Gigabyte 7VTXE, W/Sound	\$219
S2093(B) Epson Stylus 400/500/600/700/Photo	\$13	AMD, Gigabyte 7ZXE, W/Sound	\$158
S2097(C) Epson Stylus T/m/ Color 200/500	\$5	AMD, MSI K7T 266 Pro2	\$250
S20108(B) Epson Stylus Color800/1520	\$5	AMD, ASUS A7V266, U100	\$326
S2089(C) Epson Stylus 400/600/800/1520	\$18	AMD, ASUS A7V266-E, U101	\$298
S20110(C) Epson Stylus Photo700/PhotoEX	\$18	AMD, ASUS A7A266-E, U100	\$231
S20187(B) Epson Stylus Color 440/640/660	\$14	AMD, ASUS A7M266, U100	\$339
S20189(B) Epson Stylus Color 740	\$5	AMD, ASUS A7VL133-VM w/Vedio, sound	\$148
S20191(C) Epson Stylus Color 440/640/660/740	\$18	Networking	
T003(B) Epson Stylus Color 480/900/900N	\$15	ISA 10M network card	\$25
T0014(C) Epson Stylus Color 480/900/900N	\$22	PCI 10M network card	\$20

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Microsoft Internet K/B PS/2	\$40	Intel 10/100 M pci network card	\$62
AAA Windows 98 K/B, PS/2	\$14	10M PCMCIA Network card	\$87
AAA Internet K/B, PS/2	\$18	10/100 PCMCIA Network card	\$49

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Armada 110	Cel 850, 128 M RAM, 10G, 24X CDROM, 12.1" TFT, 56K, WIN ME	\$1994
Armada 110	Cel 700, 192M RAM, 10G, 24X CDROM, 14.1" TFT, 56K, LAN, WIN ME	\$2137
Armada 110	P3 850, 128M RAM, 20G, 8X DVD, 14.1" TFT, 56K, Lan, WIN ME	\$2914
Armada EVO	P3-1066, 192M RAM, 20G, DVD, 14.1" TFT, 56K, LAN WIN 98/ME	\$5962
Armada E500	P3 850, 256M RAM, 20G, DVD, 15" TFT, 56K, 10/100, WIN 98	\$4092
Presario 1200	P3 800, 64M RAM, 15G, 24X CD, 13.3" TFT, 56K, WIN ME	\$2298
Presario 1400	P3 800, 192M RAM, 10G, 6X CDROM, 13.3" TFT, 56K Lan, WIN ME	\$2367
Presario 1700	P3 650, 192M RAM, 10G, 24 CD, 13.3" TFT, 56K, LAN, WIN 98	\$2252
Presario 1700	P3 800, 256M RAM, 15G, 6X DVD, 13.3" TFT, 56K, LAN, TV OUT, WIN ME	\$3575
Presario 1700	P3 850, 256M RAM, 20G, 6X DVD, 14.1" TFT, 56K, LAN, WIN ME	\$3563

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Intel 950 Celeron, S370	\$168	Sound Blaster Audigy Platinum Ex	\$500
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Intel Pentium III-933, S370,	\$330	32Mb GeForce II MX, TV out	\$106
Intel Pentium III-1000, S370,	\$354	64Mb GeForce II MX,	\$107
Intel Pentium 4-1.5G (478)	\$366	64Mb GeForce II MX, TV out	\$120
Intel Pentium 4-1.6G, (478)	\$414	64Mb GeForce II MX 400,	\$131
Intel Pentium 4-1.7G, (478)	\$470	64Mb GeForce II MX 400, TV out	\$142
Intel Pentium 4-1.7G, (423)	\$463	ASUS V7100 32Mb GeForce 2 MX 2V1D	\$272
Intel Pentium 4-1.8G, (478)	\$540	ASUS V7100 32Mb with TV-Out	\$176
Intel Pentium 4-1.9G, (478)	\$678	ASUS V7100 32Mb Pro MX400 with TV-Out	\$189
Intel Pentium 4-2G, (478)	\$1,056	ASUS V7700 32Mb GeForce 2 GTS with TV-Out	\$228
AMD Duron Socket A 800	\$108	ASUS V7100 64Mb Pro MX400 with TV-Out (SPEAICL	\$189
AMD Duron Socket A 900	\$126	ASUS V7100 64Mb Pro MX400 with TV-Out	\$236
AMD Duron Socket A 950	\$153	ASUS V7700 32Mb GeForce 2 TV out TV Tuner	\$335
AMD Duron Socket A 1000	\$151	ASUS V7700 32Mb GeForce 2 GTS Deluxe	\$389
AMD Duron Socket A 1100	\$176	ASUS V7700 64Mb GeForce 2 Ultra with TV-Out	\$499
AMD Duron Socket A 1200	\$200	ASUS V7700 64Mb Pro GeForce 2 Deluxe	\$454
AMD Athlon K7- 1100C	\$204	ASUS V7700 TI 64Mb GeForce 2 Deluxe Titanium	\$418
AMD Athlon K7- 1200C	\$228	ASUS V8200 T2 64Mb GeForce 3 Deluxe Titanium	\$606
AMD Athlon K7- 1330C	\$248	ASUS V8200 64Mb GeForce 3 Deluxe	\$809
AMD Athlon K7- 1400C	\$333	ASUS V8200 T5 64Mb GeForce 3 Deluxe Titanium	\$897
Athlon XP-1600+ CPU	286	Hercules 64M GeForce 3 Titanium 200	\$480
Athlon XP-1700+ CPU	356	Hercules 64M GeForce 3 Titanium 500	\$793
Athlon XP-1800+ CPU	486	HERCULES 3D PROPHET 4000XT 32M	\$134
Athlon XP-1900+ CPU	594	HERCULES 3D PROPHET 4000 TV 32M	\$138
Athlon Heavy Duty CPU FAN	\$20	WINFAST GEFORCE 3 64MB DDR TDH(200MHz) +TV	\$722

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AAA 180W Amplifier speaker	\$9	WINFAST GEFORCE 3 64MB DDR TITANIUM500 +TV	\$769
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AAA 800W Sub-woofer speaker	\$48	WINFAST GEFORCE2 64MB PRO DDR +TV	\$338
AAA 600W Sub-woofer speaker	\$24	WINFAST GEFORCE2 32MB PRO +TV	\$268
80W INTERNAL 5.25" SPEAKER	\$16	WINFAST GEFORCE 2 64MB MX 400+TV	\$199
Creative Desktop Theatre 2200 5.1	\$281	WINFAST GEFORCE 32MB MX200 +TV	\$141
Creative DTT2200 5.1 & SBLive DE 5.1	\$372	WINFAST GEFORCE 32MB MX200 PCI	\$118
Creative DTT2500 Digital 5.1	\$516	WINFAST GEFORCE 32MB MX200 PCI	\$129
Creative DTT2500D Playworks	\$550	16 M Millennium 2XHEAD G450 OEM - NO CABLE	\$200
Creative DTT3500 Digital 5.1	\$728	16 M Millennium SINGLE HEAD G450 OEM	\$136
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Altec Lansing ACS48 - 3p speaker	\$254	100Mb Zip Disk	\$19
Altec Lansing ACS54 - 5p speaker	\$185	250Mb Zip Disk	\$21
Altec Lansing ACS56 - 5p Speakers	\$262	PEERLESS FIREWIRE or USB 10GB	\$788
Altec Lansing ADA880 - Dolby- 5 P	\$494	PEERLESS FIREWIRE or USB 20GB	\$900
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ESS pci sound card,	\$24	PREDATOR Firewire 8x4x33	\$730
Creative Vibra 128 PCI card	\$42	POCKETZIP PC CARD DRIVE	\$116

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FACING UP TO FONT MANAGEMENT

USEFUL TIPS FOR DEALING WITH THE EVER-INCREASING VOLUME OF FONTS ON YOUR BELOVED MAC.

The ability to use multiple fonts in various sizes in a document and see onscreen how the printed page will look was for many people the reason to switch from command-line driven systems to the graphical user interface pioneered by the Macintosh.

We now take this feature for granted, and most of our computers are equipped with more fonts than we ever use. Whenever you install a major piece of software, there's a good chance that more files are added to the Fonts folder. Your Fonts folder probably also contains those Star Trek fonts you can't

live without, the street-cool fonts your teenagers use, and the decorative fonts for Christmas. In all, your Fonts folder is likely to be very cluttered.

This is not a good thing, because excessive fonts sap the performance of your Mac. More fonts mean a slower startup and they also use up more memory.

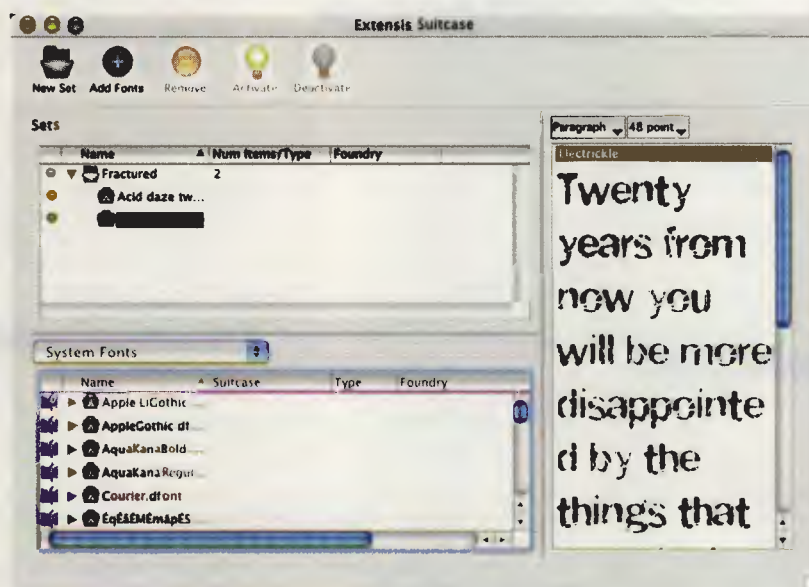
Second, older versions of Mac OS limit the number of files that can be open at any one time; the maximum for Mac OS 8.6 was 348, but it increased to 8,169 in Mac OS 9. Some programs unnecessarily keep files open, so there

is a risk of hitting the limit on a pre-9.0 system. Each suitcase in your Fonts folder counts as an open file. If you can't or don't want to upgrade to Mac OS 9, beware of Fonts folder bloat.

Third, many programs show each item in the Fonts menu in its typeface. This is a handy feature, especially if you have trouble remembering the difference between them, but the more fonts installed, the longer the application takes to build that menu. Even on a G4, this can noticeably increase application launch times. Don't think you're immune if your favourite application lacks this feature; the effect just isn't as pronounced. Either way, you still waste time scrolling up and down the menu if too many fonts are installed. Mac OS X lets you organise fonts into collections such as the predefined Classic and Fun collections, but some applications (such as Word X) bypass the Font Panel, which lets you make use of collections.

Finally, there is a limit on the number of font suitcases and loose fonts that can go in the Fonts folder. From Mac OS 9 onwards, the limit is 512; prior to that it was 128. While it is possible to get around this restriction by moving your fonts into a smaller number of suitcases (such as combining light, bold, italic and other variants of a font into a single suitcase), a bug in Mac OS 8.6 can corrupt the suitcase if you try that.

As you can see, your fonts deserve attention. The first step is to disable any fonts that you really don't need. Create a folder called Fonts (Disabled) inside the System Folder, make sure



► Industrial-strength font managers such as Suitcase Ten can open fonts regardless of where they are stored. Other features include font conflict resolution and automatic font activation.

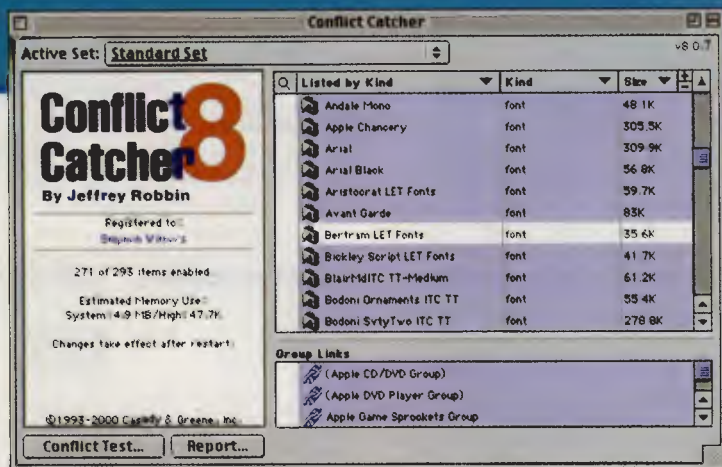
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Celeron 1000	\$179	ASUS CUSI-M	\$165	16MB TNT2 / 32Mb TNT2 AGP	\$65 / \$77	Stylus C60	\$250	PCI-128 oem	\$41
Celeron 1100	\$221	GIGABYTE		32MB TNT2 PCI	\$97	Stylus C70	\$405	Live oem	\$89
Celeron 1200	\$260	GA-6VTXE	\$151	32MB TNT2 TV out AGP / PCI \$100 /	\$150	Photo 810	\$345	Live DE 5.1	\$100
P4 - 1.5GHz S478	\$389	GA-60XET	\$235	32MB TNT2 AGP with TV out & Video in	\$150	Photo 895	\$670	Live Audigy DE	\$219
P4 - 1.6GHz S478	\$435	GA-60X	\$190	64MB GeForce 2 MX	\$120	Photo 1290 (A3)	\$909	Live Platinum 5.1	\$361
P4 - 1.7GHz S478	\$485	MSI-6368	\$143	Matrox G550 32Mb Dual head AGP	\$297			Memory	
P4 - 1.8GHz S478	\$552	Aopen AX34	\$188					128Mb SDRAM	\$45
AMD		PROTRAC		ASUS		Canon		256Mb SDRAM	\$75
Athlon 1.1G & fan	\$227	M758lmr / M754lmr	\$160	V7100 GeForce II MX400 64MB TV out	\$215	BJC1000SP	\$105	DDR 256M	\$150
Athlon 1.2G & fan	\$238	Pentium 4		V7700 Titanium 64MB Deluxe, DDR	\$470	BJC 2100SP	\$140	Networking	
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Athlon XP 1800	\$505			Hercules 3D Prophet 4000 XT 32MB	\$119			4 Port Switch 10/100	\$90
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Duron 1000 & fan	\$180	Gigabyte 71XE4	\$150	Hercules 3D Prophet III Ti200 64MB TV	\$480	HP 845C	\$189	8 Port Switch 10/100	\$120
Duron 1100 & fan	\$210	Gigabyte 7ZMMH	\$190	Hercules 3D Prophet III Ti500 64MB TV	\$860	HP 930C	\$255	USB Hub 4 port	\$50
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Maxtor 40GB	\$200	ASUS A7V-E	\$199	Eagle GeForce II MX G400 64MB TV-out	\$153	Acer 3300U	\$119	DVD 16x Pioneer/LG	\$130
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Barracuda III 20GB	\$190	ABIT KT7A Raid	\$265	Acer 1610A 32x16x10 IDE Kit	\$188	Canon D660U	\$255	250Mb USB Zip	\$360
Barracuda III 40GB	\$236	ABIT KG7 Light	\$300	Acer 2010A 40x20x10 IDE Kit	\$228	HP 2200C	\$174	250Mb Internal Zip	\$185
Deskstar		ABIT KG7	\$309	Sony CRX175E 40x24x10 IDE oem	\$240	HP 4400C	\$250	Cases	
Deskstar 20GB	\$203	ABIT KG7 Raid	\$357	Sony CRX1611 32x16x10 IDE oem	\$214	Mitsubishi DV648U	\$100	ATX Midi case	\$55
Deskstar 40GB	\$269	MSI Turbo	\$187	Sony CRX160S 32x12x8 SCSI oem	\$290	Epson Perfection 1250	\$227	ATX Full tower case	\$110
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Quantum 20GB	\$190	MSI K7T266 Pro-RU	\$319	Ricoh MP9120A 32x12x10 DVD Kit	\$360	Epson 1650 Photo	\$440	ATX Aopen HX45	\$100
Quantum 30GB	\$224	PROTAC M810	\$170	Ricoh MP9200A 40x20x10 DVD 12x Kit	\$460	Add on cards		ATX Aopen HQ08	\$185
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		Elitegroup K7S5A	\$170	Imega CDRW6400 40x16x10 kit	\$199	PCI SCSI II card	\$44	ATX Macase K80	\$138
				ASUS 2410S 40x24x10 kit	\$290	USB PCI card	\$35		
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P4 1.6Gb	\$1790	Athlon 1.2G	\$1460	Celeron 1000	\$970	15" Mitsubishi / Acer 54E	\$250	A4-Tech 4D wheel	\$30
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Ricoh/Kodak/Misumi	\$1.5	Creative Web cam	\$87	Windows XP Home Ed	\$217	17" Samsung 75E	\$340	Optical PS/2 or USB	\$45
Verbatim/Kodak 80m	\$1.5	Vcam Digital	\$90	Windows XP Professional	\$335	17" Hitachi CM615ET	\$357	Optical cordless PS/2 / USB	\$139
Rewritable CD	\$3.0	ViewExcel	\$80	Windows 2000 oem-Full	\$330	17" Diamond 17NF	\$580	Microsoft	
We accept cash, cheque or direct deposit and for in shop purchases		ViewExcel		Office XP Small Business	\$380	17" Sony CPDE230	\$599	IntelliMouse PS/2	\$30
Prices are exclusive of delivery and Insurance.		ViewExcel		Office 2000 / XP & Pro-Full version oem	\$500	19" Sony CPD420	\$1230	Wheel mouse Optical oem	\$55
						19" Mitsubishi 1995SL	\$600	IntelliEye Explorer oem	\$75
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						Netcomm Roadster	\$180	Logitech Cordless Freedom	\$129
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						PCMCIA 56K	\$130	Microsoft Internet	\$40
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						Creative PC Works S/Woofer	\$78	Honeywell Multimedia	\$50
						Creative FPS1500 4x Spks	\$168	Wireless with Gyro stick	\$80
						Creative FPS1000 4x Spks	\$125	LG wireless with mouse	\$100
						Altec Lansing ACS22 / 300	\$40/\$80		



► Conflict Catcher isn't ideal for managing sets of fonts, but it does provide a fairly convenient way of enabling or disabling individual fonts.

no programs are running, and then move the unwanted fonts from the Fonts folder into Fonts (Disabled). All the standard fonts installed by Mac OS (especially Ariel, Charcoal, Chicago, Geneva, Monaco, New York, Symbol and Zapf Dingbats) should be left active.

If you use Conflict Catcher to manage your startup items, you can also use it for font management. You can add Fonts to the list of folders it manages (choose Preferences from the Edit menu, click on Folders and then check the Fonts item in the list of folders), but it isn't especially useful to control fonts through startup sets, because this multiplies the number of startup sets you need. Using Conflict Catcher to enable or disable individual fonts is easier and quicker than opening the System Folder and dragging the suitcases from one folder to another.

Fonts Manager is a US\$10 (AUD\$19) shareware utility that moves fonts around in sets. This can be a good way of working if you can identify groups of

fonts that you always use together.

The next step up is a commercial font manager such as Suitcase Ten or Font Reserve. These products are aimed at people such as design professionals who manage large font collections. It has the ability to associate sets of fonts with certain applications, and in some situations to automatically activate the fonts used in the document being opened. These utilities can also open or close fonts on the fly. Suitcase Ten very conveniently manages Mac OS X and Classic fonts from a single utility.

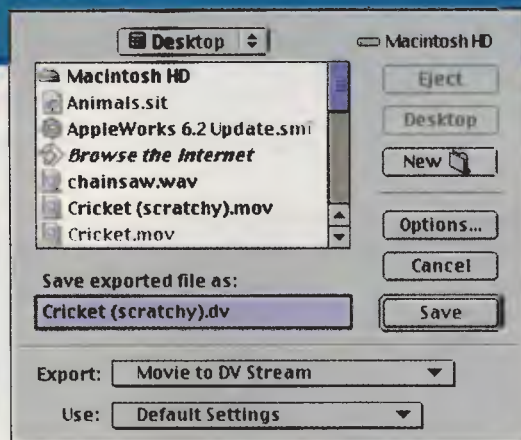
To get your font collection under control one of these approaches will be right for you, and the four products mentioned above (Conflict Catcher, Fonts Manager, Suitcase Ten and Font Reserve) are on this month's CD set.

HOW TO GET THE ANTIQUE LOOK

Some people will tell you that the "old movie" look with scratched black-and-white images is hackneyed. They are probably right, but there are times when it is hard to resist.

It isn't hard to achieve this effect without any extra software beyond iMovie and QuickTime Player. The only catch is that you need to buy a licence key to upgrade to QuickTime Pro, and that'll cost \$59 at www.apple.com.au/quicktime/buy.

Once you've upgraded, follow these steps. Create an iMovie that contains only the sequence you want to convert. Choose Export from the File menu,



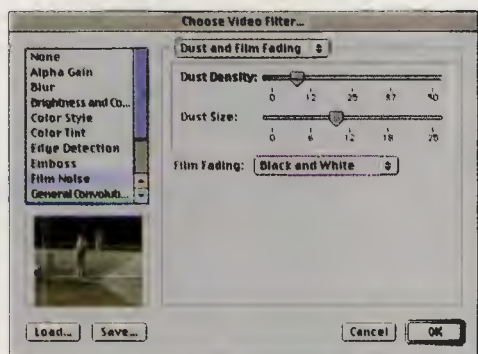
► Having applied your choice of filters, re-export the movie as a DV file for use in iMovie.

choose To QuickTime in the Export pop-up menu and Full Quality, Large from the Formats pop-up, then click Export and save the file in a suitable folder (the Desktop is a handy location for these intermediate files).

Double-click this exported file to open it with QuickTime Player. It may look distorted, but that's because DV and QuickTime pixels aren't the same shape. Choose Export from the File menu and pick Movie to QuickTime Movie from the Export pop-up. Click the Options button and, in the resulting Movie Settings dialog, select Film Noise from the list on the left-hand side. Choose Hairs and Scratches from the pop-up menu and adjust the sliders until you are happy with the effect. Now choose Dust and Film Fading from the pop-up, and then select whichever effect is appropriate for the job — "Sepia Tone", "Black and White", "Faded color film" or "1930's color film". When you are happy with the preview, click OK, then OK again. Give your filtered movie a name and save it.

Still in QuickTime Player, open the filtered movie you've just created, then choose Export from the File menu, choose Movie to DV Stream from the Export pop-up, change the filename if necessary, then click Save.

Finally, go back to iMovie and choose Import File from the File menu. Navigate to the DV Stream movie you just created and click Import. Your faux antique movie will appear on the shelf as if it were a clip imported from a camera. ■



► The Film Noise filter removes colour and applies dust and scratches to the movie.

STEPHEN WITHERS is one of Australia's foremost Mac writers and was formerly editor of Australian MacUser magazine. He can be contacted at swithers@ozemail.com.au.



TURN THE TABLES

GET COMFORTABLE WITH MICROSOFT ACCESS. USE THIS TUTORIAL TO BUILD DATABASE RELATIONSHIPS THAT WORK.

Microsoft Access is one of the least used but most powerful of Microsoft's Office applications. Many people feel quite at home with Word, Excel and PowerPoint, but Access is usually relegated to the domain of professional programmers and database administrators.

Exploration of Access usually begins and ends with a simple flat-file database such as a mailing list, but Access isn't a great flat-file application. Many other products create flat-file databases with more pizzazz, and in an environment far less confusing for novices.

However, Access does offer a host of easy-to-use and very powerful tools for relational databases. Once you've learned a few key techniques, you'll have no trouble quickly building customised database solutions that do precisely what you want, how you want and when you want.

So what exactly are relational databases? In short, they're the storage silos of the information world. Almost all databases rely to some degree on the joined tables made possible by a relational system. A

well-designed relational database offers built-in data integrity, zero redundancy and very powerful reporting functions.

Relational databases can be conceptually tricky because they're multidimensional: they link the records stored in one or more tables using key fields. Let's work through an example.

The Ozzie Mobile Car Wash company has decided to consolidate its records and put all of its clients into a database. The goal is to keep track of each client's vehicle and to build in a pricing system that charges different rates for different models. After all, it takes longer to put the polish back into a big bush-basher than a petite mini. The company also wants to generate a report each morning that shows the daily round.

You can build this database using just three fields and a record ID, as shown in Table 1, below.

It's not hard to spot the inefficiencies and limitations of this design. First, databases shouldn't as a rule allow data replication. Look at the Vehicle and Wash Rate fields for records 1 and 3. Each time a vehicle model is repeated it

is also necessary to type in the rate. This leaves the database open to error if either the vehicle's name or rate is mistyped. A similar problem occurs when discrepancies appear, such as in the Client Name field in records 1 and 4.

You can also see that there is no way to record multiple client vehicles without repeating all of the client data. That's no

DeZign

Good databases require solid foundations, and that means an efficient design. Each field needs to be thought through, and the relationships between each entity established. Poorly designed databases have cost companies millions.

Planning a complex relational database can take quite some time, but the job is made easier with the assistance of entity/relationship modelling software. DeZign from Datanamic (www.datanamic.com) is like a sketch pad upon which you can lay out the entire database structure before you start to work with the data.

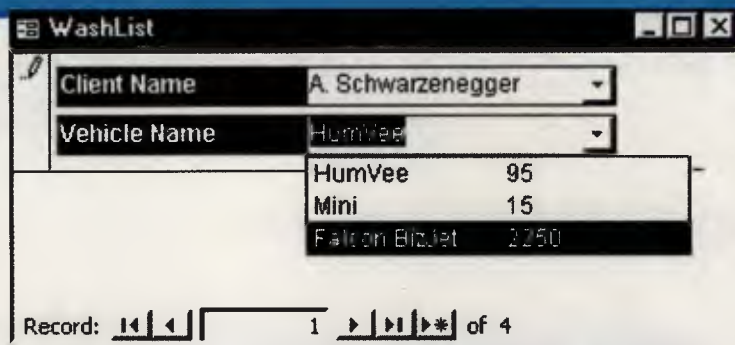
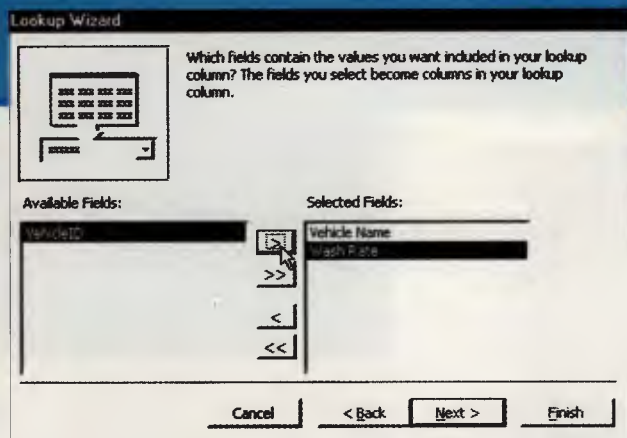
DeZign is highly intuitive. Even a database newbie will be able to start building up tables and fields and drawing relationships between entities, all from a single work surface. The software is compatible with Access, plus a range of other databases including Oracle, Informix, MySQL, SQL Server, Interbase, Paradox, DB2 and Sybase, so any schema you build in DeZign can be exported to those databases.

At US\$139 (AUD\$266) and with a full set of ER modelling tools, DeZign is a steal compared to the US\$7,000 (AUD\$13,547) charged by Computer Associates for the ERwin modelling suite.

DeZign can export to multiple databases via SQL-schemas, but you need to purchase additional modules to import database models stored in anything other than the native DeZign format. These modules cost US\$61 (AUD\$116) each, and make it possible to reverse-engineer Access, dBase, Paradox, SQL and MySQL databases.

TABLE 1

RECORD ID	CLIENT NAME	VEHICLE	WASH RATE
1	A Schwarzenegger	Humvee	95
2	Mr Bean	Mini	15
3	R Rivkin	Humvee	95
4	Arnold Schwarzenegger	Falcon BizJet	2,250



► Select the fields you want to include in this lookup. Selecting more than one at a time is not a problem.

► The query created by the Lookup Wizard displays both sets of values in the Vehicle field in a simple pull-down menu.

big chore in the sample database, but in a real database each record would also include the client's address, telephone number and other information. Retyping that information each time would be extremely inefficient.

The final problem with this database is its lack of integrity. The only way to globally raise the Humvee wash rate would be by searching out and changing every instance of the Humvee. Miss one, and the data starts to skew.

A relational database solves these problems, but it takes some work. The database is broken into standalone but related tables ("normalisation") and the goal is to omit needless data.

Rather than recording the vehicle and rate each time either is used, you store each type of vehicle and its rate in a separate table, as in Table 2.

You then replace the Vehicle and Wash Rate columns in the original

table with a single VehicleID column that automatically looks up the list of available vehicles in Table 2.

The duplicated client problem is dealt with in a similar way by creating Table 3 and then having a ClientID column in the original table that looks up the list of client names and replaces them.

The original table (Table 1) is now Table 4. It acts as a vehicle wash list, which is what we wanted, and it can do its job simply by storing a series of ClientIDs and VehicleIDs. The information in Table 4 is identical to that in Table 1, but it now boasts full data integrity. Replication errors are also now impossible.

Planning the normalisation of a database is a complex process because it requires careful analysis of

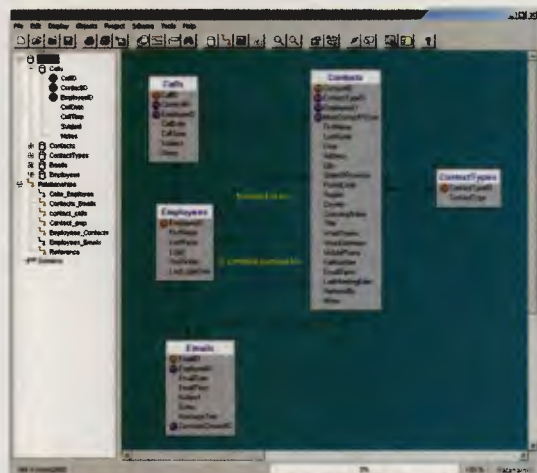
the relationships that exist between each piece of data. Even in this simple example, we've ended up with three separate tables. But don't let that scare you. Access makes it easy to develop and maintain relational databases. It even has a built-in tool that analyses your existing database and splits off tables that are cluttering up the system with duplicated data. (To see it in action, select any non-normalised table and then choose Tools, Analyze, Table.)

Building a relational database from scratch is also easier than you might expect. You can ignore the Relationships window that lurks under the Tools menu and let Access create all the links you need using the Lookup Wizard.

Start by creating each individual table. Define one ID field in each table as an AutoNumber field. Then right-click in the grey column to the left of that field and select Primary Key. The key is used to reference the records in each table.

To include in one table the information contained in another, use the field type Lookup Wizard. Once the wizard starts, select the first option: "I want the lookup column to look up the values in a table of query". Select the table you want to look up and choose those fields you'd like to display. You can look up more than one field at a time. Then complete the rest of the wizard.

Once you've finished, Access automatically defines the relationship between the table you need to look up and the field in the current table that will receive the results. ■



► You can use DeSign to engineer databases.

VEHICLE ID	VEHICLE NAME	WASH RATE
1	Humvee	95
2	Mini	15
3	Falcon BizJet	2,250

CLIENT ID	CLIENT NAME
1	A Schwarzenegger
2	Mr Bean
3	R Rivkin

RECORD ID	CLIENT ID	VEHICLE ID
1	1	1
2	2	2
3	3	1
4	1	3

STEPHEN O'BRIEN is the author of some two dozen computing books. He's worn the letters off several keyboards, and suspects he puts more hours into Word than he does into breathing. Between pages he has been known to check his email at sobrien@quorum.com.au.

RICOH

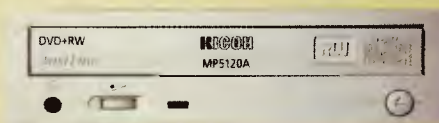
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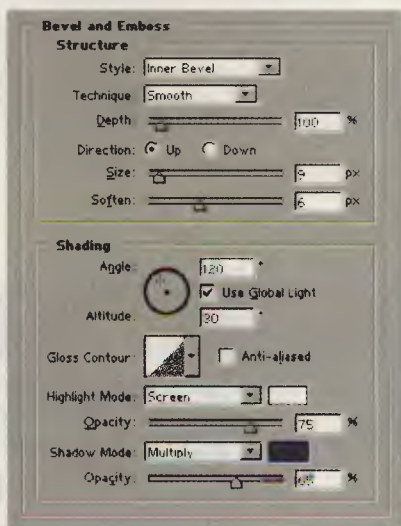
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ROCK 'N' ROLLOVERS

HOW TO MAKE USE OF PHOTOSHOP AND IMAGEREADY TO ADD ROLLOVERS TO YOUR WEB PAGE.

You don't need to be a Web guru to create stunning, interactive Web pages; nor do you require a mountain of sophisticated software. In fact, if you have Photoshop and an operating system to run it on, you probably have all the tools you need to create a snazzy Web page interface complete with graphics, animations, rollovers and image maps. That's right, with nothing more than Photoshop, ImageReady, a simple text/HTML editor and a Web browser, you can create just about anything your imagination can conjure up.

Here, I'll show you how you can combine the power of Photoshop and ImageReady to make a cool-looking rollover button for your Web page.



► Figure 1

MEASURING UP

Before you get started, make sure that you're measuring everything in the same units. Select Edit, Preferences, Units & Rulers, or press Ctrl-K (Ctrl corresponds with the Mac "Command" key), followed by Ctrl-5 and choose pixels from the Rulers drop-down menu.

BUILDING A BETTER HOME

Begin by creating a new canvas. Press Ctrl-N (or choose File, New), and enter the following values: Width: 100, Height: 50, Resolution: 72 (pixels/inch), Mode: RGB Color, Contents: Transparent. Press OK to create the new canvas.

For the background layer, choose Solid Color from the New Fill/Adjustment Layer button menu — the one that looks like a half moon — at the bottom of the Layers palette. Choose a colour that represents the background colour of the proposed Web page (to give you an idea of what the button will look like when it is implemented). I chose R64,G64,B88 (#404058). If you wish, you can discard the layer mask associated with this layer (by clicking on the Trash icon), since you won't be using it for this project.

Now you're ready to create the button itself. Click on the foreground colour in the toolbar and choose the colour you want. I chose R190,G190,B255 (#BEBEFF). From the toolbar, choose the rounded rectangle (Shape) tool. In the Options palette,

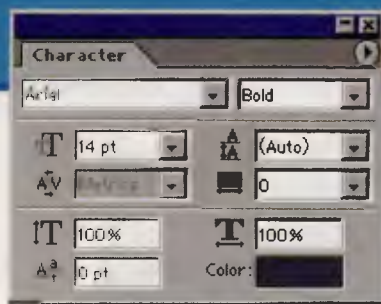
ensure that the Shape Layer button is selected (the left-most button depicting a solid square with four corner nodes), and that the Snap to Pixels option is enabled in the Geometry Options drop-down menu (the downward-facing arrow to the right of all the shape buttons). Enter 10 for the radius. In the document window, drag out a pill shape that is approximately 57 x 23. Its helpful to have the Info palette (F8 or Window, Show Info) visible to see the size of the pill shape as you draw it.

To give the button some depth, choose Bevel and Emboss from the Styles button menu — the button with the italicized "f" on it — located at the bottom of the Layers palette.

Leave all options set to their default values with the exception of the following: Size: 9, Soften: 6, Shadow Mode color: R80,G80,B115 (#505073), Shadow Opacity: 65%. Press OK to accept the current style (see figure 1).

Using the Eyedropper tool, sample the background colour (from the Solid Color layer). In this example, we'll use this colour for the button label. Select the Type tool and establish the font settings you wish to use for the button label. You can use the Options palette, the Character palette, or both, to configure your type style. I used 14pt Arial Bold with anti-aliasing set to Crisp (see figure 2 on the next page).

Don't worry too much about getting the font settings perfect, because you can always come back and change them. With the Type tool still active, click on the canvas and type the name



► Figure 2

of the button (for example, Home). Once you're happy with the way the type looks, use the Move tool to position the type layer on top of the button. Finally, group the type layer to the button layer by pressing Ctrl-G or going to Layer, Group with Previous (see figure 3).

This completes what will eventually be the default state of your "Home" button. Now, let's create the rollover state — the state site visitors see when they move their mouse over the button.

HOME SWEET HOME

Before proceeding, make sure that the type layer is the active (selected) layer. Since you're going to use the button layer and the type layer for the rollover state, you'll need to master a quick way to duplicate multiple layers. First, hold down the Alt key (corresponds with the Mac "Option" key) and choose Image, Duplicate. Holding down the Alt key skips the dialog box that would normally prompt for the new canvas name — you won't need this temporary canvas for long, so don't worry about the name). Link the button layer and type layer together (in the new canvas). Select the Move tool then, while holding down the Shift key, drag the layers (from within the document window, not the Layers palette) onto the original canvas. Holding down the Shift key ensures that the dragged layers are dropped in the same relative position as they appeared in the source canvas. You can now close the duplicate canvas — there's no need to save it.

The next step is to change the layer style associated with this duplicate button to give it a depressed look (meaning pressed in, not unhappy!). Double-click the Bevel and Emboss style

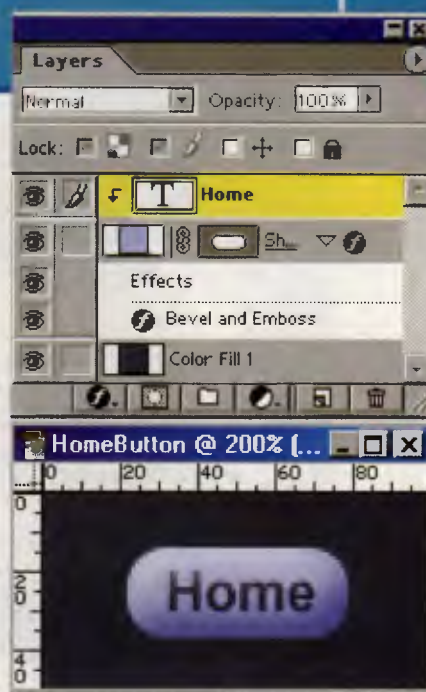
attached to the top-most button layer. Uncheck the Use Global Light option and change the Light Angle to -30°. Now, select Contour from the left side of the Layer Style dialog box. Clicking on the checkmark associated with each style simply enables or disables the selected effect (with its default settings), so be sure to click on the actual style name to display the appropriate options page.

Once the Contour options page appears, select the "Ring" contour from the Contour drop-down menu. If you pause briefly over the contours, their names come up. Press the OK button to accept the current style (see figure 4 below).

To make the illusion that the button is being depressed more convincing, scale the type layer slightly to add a sense of depth. Select the top-most type layer and unlink it from the button layer. Press Ctrl-T (or choose Edit, Free Transform) to initiate Free Transform. In the Options palette, set the Reference point location to the bottom-middle (that is, move the black dot from the centre to the bottom), and enter 94% for both width (W) and height (H). Press Enter on the numeric keypad (or Ctrl-Enter on the keyboard) to commit the changes.

At this stage, you can preview the results by toggling the visibility (the eye icon) of the top button layer. Because the scaled type layer is grouped to the button, it will automatically turn on and off with the button layer.

Before sending the image to ImageReady, tidy things up a bit. Ctrl-click on the button layer to load the associated transparency selection, then choose Image, Crop. Turn off the



► Figure 3

top-most button layer (which will then disable the grouped type layer) as well as the Color Fill layer (the bottom-most layer). Finally, press Ctrl-S (or choose File, Save) to save the image.

The image is now ready to be "animated". Press Ctrl-Shift-M (or click the Jump button at the bottom of the toolbar) to send the PSD to ImageReady (see figure 5 on the next page for an idea of how it should look).

MAKE IT GO!

After the image appears in ImageReady, reveal the Rollover palette (Window, Show Rollover). Click the New State button (the page icon) to add an Over state. In the Layers palette (F7 or Window, Show Layers), turn off the bottom-most button layer, and then turn on the top-most button layer.

Now you need to optimise the button for output. Choose 2-Up from the View tabs at the top of the document



► Figure 4

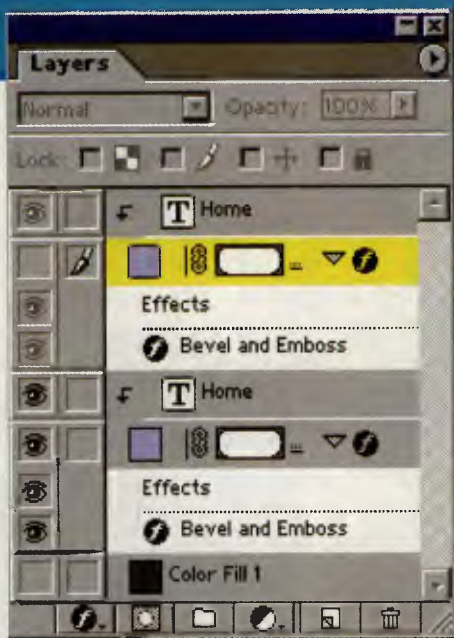


Figure 5



Figure 6

window (or use Ctrl-Y to cycle through the View modes). This allows you to see the original and optimised images simultaneously. Display the Optimize palette (F10 or Window, Show Optimize) and choose "GIF 64 No Dither" from the Settings drop-down menu. This setting strikes a good balance between quality and file size, but you may wish to experiment with the settings and options to achieve different results.

To ensure that the final button blends seamlessly into the Web page, specify the correct Matte colour. If the Matte colour box is not visible in the Optimize palette, choose Show Options from the palette menu (accessed by clicking the round button in the top-right corner of the palette). Click on the Matte colour box — not the drop-down button — and enter the appropriate background colour (the colour you used for your Color Fill layer). I used R64,G64,B88 (#404058).

To preview the rollover, press Ctrl-Alt-P (or click the Preview in Browser button near the bottom-right of the toolbar). Move your mouse over the button to see the Over state.

If you're happy with the results, press Ctrl-S (or File, Save) to save the PSD, followed by Ctrl-Alt-Shift-S (or File, Save Optimized As) to save the optimised images and/or HTML code (see figure 6 above).

THE FINISHING TOUCHES

ImageReady provides most of the tools you need to build a Web page interface, but sometimes all you want is to incorporate portions of the output (images, HTML or both) into another page. This task is much easier if you know HTML (and Javascript), but if you don't, fear not! By default, ImageReady uses HTML comments (<!-- Some Comment -->) to distinguish most of the relevant code. This makes it a little easier to identify those portions of the code that are required to incorporate this button into your own Web page.

Open the newly created ImageReady HTML file (named after your PSD) into any text/HTML editor and copy everything between the following comments (including the comments themselves, if you wish):

```
<!-- ImageReady Preload Script
(HomeButton.psd) -->
```

```

.
.
.
```

```
<!-- End Preload Script -->
```

Then, paste it between the <HEAD> and </HEAD> tags in your own HTML page. Next, copy everything between the following comments (again, including the comments, if you want):

```
<!-- ImageReady Slices
(HomeButton.psd) -->
```

```

.
.
.
```

```
<!-- End ImageReady Slices -->
```

Paste the code wherever you would like it to appear in your page (relative to the other objects on the page), making sure it appears somewhere between the <BODY> and </BODY> tags.

Finally, be sure to include the ONLOAD="preloadImages();" statement inside your <BODY> tag. For example:

```
<BODY BGCOLOR="#404058"
ONLOAD="preloadImages();">
```

Once you've copied and pasted all of the relevant code, test your page to see if it works as expected. If some of your images don't appear, check the source path to ensure that it's correct. If it isn't, use the search and replace feature of your editor (if available) to search for "images/" and replace it with the correct path (for example, "homepage/images/").

And that's all you need to know to put rollover buttons on your Web page. The completed HomeButton.psd file is on this month's CD set. ■

TREVOR MORRIS is a 2D/3D graphic artist and Web developer who specialises in Photoshop and Illustrator. He can be contacted at tmorris@fundy.net.



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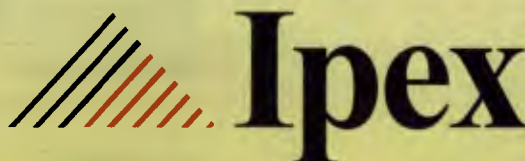
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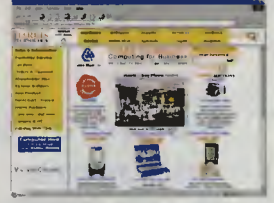
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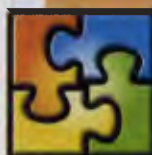
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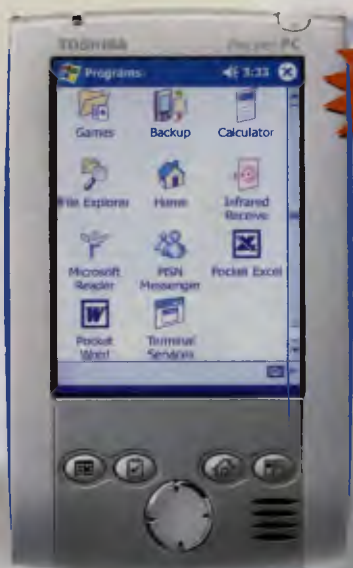
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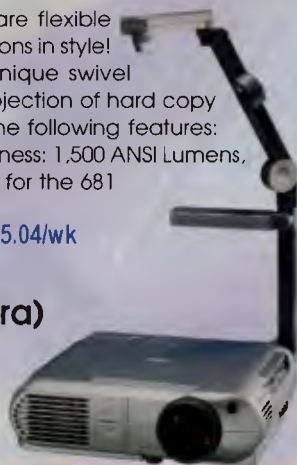
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Rent* \$36.23/wk



- The Evo Notebook N160 is the ideal thin and light notebook for customers seeking great value for money without sacrificing superior performance.
- Mobile Intel Pentium III 1000MHz Processor
 - 14.1" Colour TFT XGA display
 - 128MB SDRAM
 - 20GB Hard Disk Drive
 - 8X DVD-ROM drive
 - Integrated Mini PCI 56K Modem and 10/100 Ethernet
 - From only 2.4kg
 - Microsoft Windows 2000
 - 1 Year Limited International Warranty, including pick-up in Australia*

Presario 2700 Notebook

(D5734)

\$5,999

Rent* \$54.68/wk



- Using the Latest Mobile Pentium III-M Processors from Intel, the Presario 2700 notebook gives you the enhanced productivity and flexibility of both the optical drive and hot-swappable FutureBay.
- Latest Mobile Intel Pentium III -M 1.13GHz Processor
- ATI Radeon Mobility 4X AGP Graphics with 32MB DDR SDRAM
- Impressive 15.0" Colour TFT SXGA+ display
- 256MB 133MHz SDRAM
- Large storage capacity 30GB ATA-100 Hard Disk Drive
- Integrated Mini PCI 56K Modem, 10/100 Ethernet and IEEE 1394
- DVD-ROM/CDRW Combo Drive
- Microsoft Windows XP Home
- 1 Year Limited International Warranty.

Ask
About...



- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

Save on
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website
link below

[compaq.com
.au/solutions/
smallmedium](http://compaq.com.au/solutions/smallmedium)

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The figures
quoted are
based on a
per week
basis over 3
years. T.A.P.
Terms &
Conditions
apply.

FEB

8

Complete Business Networking Solutions

New Generation Compaq ProLiant Solutions

ProLiant ML 330, G2

The affordable Server for an Expanding Business!

- Delivers performance and data security at the best price.
- Ideal use with File/Print/Internet sharing, email & Small databases
- Dual processor capable Intel Pentium III 1133MHz with 133 MHz front side bus
- 128MB ECC SDRAM (expandable to 4GB)
- 5 Available PCI expansion slots (includes 4 x 64 bit PCI slots)
- Embedded Dual-channel Ultra ATA-100 with Integrated ATA RAID (ATA models) or Integrated, dual-channel Ultra3 SCSI (SCSI models)
- Tower to Rack conversion option kit available
- Includes Famous Insight Manager and SmartStart Software suites
- Pre-failure warranty on Hard drives, processor and memory
- 1 year Compaq warranty, parts, labour, on site (ask about our upgrades)

Small Business Budget Solution

PIII 1133/ 20GB/ 128MB/
Travan TR-5 back-up Drive/
Windows 2000 Server

(D9178)

\$4,595

Rent* \$42.94/wk



RENTSMART

The figures quoted are based on a per week basis over 3 years. T.A.P, Terms & Conditions apply.

ProLiant ML350 Second Generation

The Workgroup server that will grow with your business!

- Delivers constant uptime and expandability for future growth.
- Ideal use with corporate workgroups and growing businesses that demand expandable, easy to own, rack and tower solutions
- Dual Processor capable Intel Pentium III 1133MHz with 133 MHz front side bus and 512K on-die cache
- 128MB ECC SDRAM (expandable to 4GB)
- 6 Available PCI expansion slots (includes 5 x 64 bit PCI slots)
- Integrated dual-channel Ultra3 SCSI
- 6x 1" Hot-plug Hard drive bays
- Redundant Power supply optional
- Tower to Rack conversion option kit available
- Includes Famous Insight Manager and SmartStart Software suites
- Pre-failure warranty on Hard-Drive, Processors and Memory
- 3 Year Compaq Warranty, parts, labour, on site

Business Work Group Solution

PIII 1133/ 18GB/ 128MB/
12/24 GB DDS-3 DAT Back-up
Drive/ Windows 2000 Server

(D9181)

\$7,495

Rent* \$65.03/wk



ProLiant ML 370 Second Generation

For unprecedented performance and availability!

When it comes to performance, availability and versatility, the new Compaq ProLiant ML370 G2 server redefines the two-way server class!

- Ensures constant uptime with Hot pluggable Hard drives, cooling fans, PCI slots (2), and also optional Hot Plug secondary power supply. The all-new Compaq online spare memory
- Dual Capable Pentium III 1266MHz Flip Chip PGA system with 512k on die cache and 133MHz FSB
- 256MB of 133MHz ECC registered SDRAM memory (expandable to 6GB)
- Integrated Dual Channel Ultra 3 SCSI Controller
- 6- 1" Hot PLUG Hard drive bays, 6- 64bit PCI slots

Includes:

- New Compaq Smartstart Version 5.1 and Compaq Insight Manager Software
- Pre-failure warranty on Hard drives, processor and memory
- 3 Year Compaq Warranty, parts, labour, on site

Corporate Solution

PIII 1266/ 256 MB/
3 x 18GB, RAID 5,
12/24 GB DDS-3
DAT Back-up Drive,
Windows 2000 Server

(D9195)

\$10,695

Rent* \$91.31/wk



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products
and
latest
info!

ProLiant TaskSmart W2200 - 10

- Reconfigured Red Hat Linux running Apache Web server
- Rapid Deployment in under 15 minutes
- Remote management
- GUI based administration (No knowledge of Linux or Apache required)
- 1U Form factor (4.24cm) Rack ready
- Intel Pentium III 933Mhz processor FC-PGA (Flip Chip-pin Grid Array)
- 128MB ECC SD RAM
- 20Gb UATA/72k Hard Drive
- Will run additional Linux applications
- 3 year Compaq Warranty,parts,labour on site

(D1609)

\$3,905

Rent* \$36.49/wk

Management Solution

Reconfigured Linux Web Server



hp omnibook XE3L & 500 Series

Ask About...



- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site


Fast Delivery
Australia-Wide

HARRIS TECHNOLOGY™
Technology Centre
at Kmart
Broadway-Sydney

Technology Centre Shoppers!
Not all products are in-store, but consulting & advice available on all items.

FEB
10

Whether you run your own business or work for a large enterprise, you need a notebook PC that helps you stay on top of it all. That's why hp created the **Omnibook XE3L** — a convenient, reliable notebook that comes with everything you need to do business and have a little fun, too. Top performance, Internet working, multimedia, and instant access to your favourite applications.

Omnibook 500 — fast networking computer all in one reliable package with versatility, 1.6kg carry weight and a expansion base with dual multibay capability.

hp omnibook XE3L Celeron

hp OmniBook XE3L Celeron 933 14.1" TFT 128MB, 10GB 24x, 56k/LAN

- Intel® Celeron 933MHz
- 128MB RAM
- 14.1-inch XGA TFT
- 10 GB
- 24x CD, Intel® 830MG Graphics
- Built-in 56K modem
- Built-in LAN
- Win XP Home / XP Pro
- 1-year warranty.

Superb performance and value

• with Windows XP



F3944H

Windows XP Home

(D5997)

\$2,895

Rent* \$28.39/wk

F3944J

Windows XP Professional

(D5998)

\$2,997

Rent* \$29.39/wk

with CD-ROM

Celeron 933Mhz

14.1 display

hp omnibook 500 PIII

hp Omnibook 500 notebook with Intel Pentium III 700MHz processor

- 128MB RAM
- 20GB HDD
- 12.1" XGA TFT display
- 16-bit Soundblaster Pro compatible sound
- Built-in 56Kbps modem, 10/100 lan and 802.11b wireless networking
- Expansion Base has 2 module bays (1.44MB diskette drive module included)
- Warranty : 1 year return to HP

Ultra Light notebook PC

expansion base Included

omnibook depicted with docked multimedia expansion base



F3481W

Windows 98 SE

(D0211)

\$5,390

Rent* \$49.13/wk

F3481K

Windows 2000

(D0210)

\$5,590

Rent* \$50.95/wk

very light 1.6kg

Pentium III 700Mhz

Expansion base Included

**RENTSMART**

*The figures quoted are based on a per week basis over 3 years. T.A.P. Terms & Conditions apply.

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Web Directwww.ht.com.au/cat/hp

hp networks & servers

NEXT BUSINESS DAY ADVANCE REPLACEMENT - LIFETIME WARRANTY
PLEASE NOTE THAT PRICES ARE SUBJECT TO CHANGE ON ALL PRODUCTS

hp procure switch 2512 & 2524

9.6GBPS BACKPLANE & AUTO-MDIX • Lowest Price 10/100 Managed Switch • Provides a rich, layer 2 feature set • Includes 2 transceiver slots for upgrade to a gigabit • Auto MDIX on all 10/100 and 100/1000 ports • Lifetime warranty for as long as you own the product • Wire-speed performance on all ports • FREE HP TopTools Management Software included.

**procure switch 2512**

(12 port managed switch)

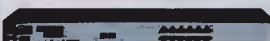
(A9703) \$2,049**procure switch 2524**

(24 port managed switch)

(B0062) \$2,325

hp procure switch 2312 & 2324

Ideal for low-cost, unmanaged 10/100 connectivity • Lowest Price 10/100 Switch • Includes 2 Built-in Gigabit transceiver slots • Brings 10/100/1000 solutions to the market • Media-flexible ports for uplinks and server connections • HP quality, functionality and performance • Plug and play solution

**procure switch 2312**

(12 port managed switch)

(B0063) \$979**procure switch 2324**

(24 port managed switch)

(B0064) \$1,389

hp procure switch modules

hp procure switch 2124 Transceiver

(D1512) **\$1,115**

hp procure switch 2424M Gig Stack Kit

(78306) **\$418**

hp procure Gigabit-SX Transceiver

(82140) **\$765**

hp procure Gigabit-LX Transceiver

(82141) **\$1,995**

hp proCurve 100/1000-T Transceiver

(A9127) **\$875**

hp proCurve 100-FX SC Transceiver

(A9128) **\$715**

hp procure switch 4108GL

The hp procure switch 4108GL bundle is a high performance, Layer 2 modular switch, for high port-density needs at the edge of the network. The chassis bundle provides 72 half/full duplex, 10/100 autosensing ports, with hp auto MDIX, transceiver module for uplinks and 4 free module slots. In addition, the switch offers built-in management (including SNMP and RMON) and fast path technology for wire-speed switching.



(C5871)

\$17,495

Rent* \$141.30/wk

hp netserver tc2100

the server with the best price/performance value for small businesses

entry-level server at the price of a desktop PC gives you server-grade power with a 1.13GHz Intel® Pentium® III processor, a 133MHz front side bus, and up to 1.5 GB of error-checking and -correcting (ECC) SDRAM memory • broader network operating system support • 3-year on-site warranty

P4649A

tc2100 with Pentium III 1.13GHz/133MHz, (D5981) 40 GB IDE hard disk drive

\$2,745

Rent* \$26.92/wk

Features:

- 128 MB registered ECC SDRAM
- flexible disk drive
- 48X max-speed IDE CD-ROM drive
- keyboard, and mouse.



HP ProCurve Switch 408

Unmanaged 8 port 10/100 switch in a compact sized package.

This switch offers half/full duplex, 10/100 autosensing on every port.

Warranty:
Lifetime,
Exchange
Next Day
(C9017)

\$402**Web Direct**

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11

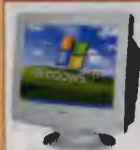
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HARRIS Technology Centre
TECHNOLOGY.
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Iplex- Largest Australian PC maker!

IPEX MONITORS



IPEX CRT MONITORS

15"

(C5931)

\$315

17"

(C5932)

\$419



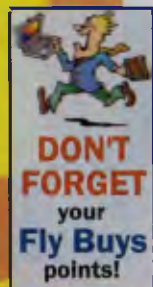
With more than 18 successful years in the IT industry, Iplex is ranked in the top 20 IT companies and top 5 Desktop/Server manufacturers in Australia. Iplex offer systems to best suit your computing needs at a cost effective price.

The Iplex M3 Series Slim Office Desktop is ideal for business and corporate environments. Housed in a small form factor Slim Office Case and featuring Integrated LAN, Graphics and Audio onboard, this is the cost effective business PC.

IPEX M3 SERIES DESKTOP

Form Factor	Slim Office	Micro Office*
Processor	Intel® Celeron™ 1.1 GHz	Intel® Pentium4® 1.6 GHz
HDD	20 GB	20 GB
RAM	128 MB	128 MB
LAN	Onboard	Onboard
Video	Onboard	32Mb TNT
Sound	Onboard	Onboard
CD-ROM	Yes	Yes
Modem	No	No
Monitor	15" CRT	15" CRT
Warranty	3 Years RTB	3 Years RTB
Win XP- Pro	Yes	Yes
Parts	(D9297)	(D9298)
	\$1,399	\$1,899
Rent*	\$15.33/wk	\$15.33/wk

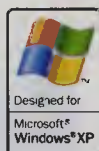
*Image not shown



DON'T FORGET
your
Fly Buys
points!

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The figures quoted are based on a per week basis over 3 years. T.A.P, Terms & Conditions apply.



Iplex have a full range of Windows® XP ready PCs. Take advantage of Microsoft's new Operating system with a new PC from Iplex. Choose from Windows® XP Home or Professional Editions for home or business.

Everything you need in a PC for your home or small office. With Windows XP Home installed, take advantage of amazing graphic and sound capabilities. Enjoy the web with a 56K Modem as standard.

IPEX SOHO TOWER

Form Factor	T400 Tower	T400 Tower	T400 Tower
Processor	Intel® Pentium® 4 1.6 GHz	Intel® Pentium® 4 1.8 GHz	Intel® Pentium® 4 2.0 GHz
HDD	20 GB	20 GB	40 GB
RAM	128 MB	128 MB	256 MB RIMM
LAN	Onboard	Onboard	Onboard
Video	Onboard	32Mb	32Mb
Sound	Onboard	SB Live	SB Live
CD-ROM	Yes	Yes	DVD-ROM
Modem	56K Internal	56K Internal	56K Internal
Monitor	17" CRT	17" CRT	17" CRT
Warranty	3 Years RTB	3 Years RTB	3 Years RTB
OS	Win® XP Home	Win® XP Home	Win® XP Home
Part #	(D9294)	(D4159)	(D4157)
	\$1,799	\$2,099	\$2,399
Rent*	\$19.71/wk	\$24.10/wk	\$23.52/wk

IPEX LCD FLAT SCREEN MONITORS



IPEX 15" LCD

Monitor	15" LCD
Part #	(C9400)
	\$965
Rent*	\$10.57 /wk



IPEX 17" LCD

Monitor	17" LCD
Part #	(C9401)
	\$1,749
Rent*	\$19.17 /wk

Images for illustration purpose only

Ipex recommends Windows XP Professional for Business

Enhance your business capability with the powerful combination of corporate Australia's preferred PC and the world's operating system of choice. Add the expertise of our highly-regarded training division to the mix to access a commanding package previously available only to corporate and government clientele.

Microsoft
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Partner

Ipex offers two business systems each featuring:

- Microsoft® Windows® XP Professional
- Microsoft® Office® XP Small Business Edition.



experience

- For every pair of units purchased, receive a bonus Microsoft-accredited training course in any of the following:

- Upgrading to Office XP
- Upgrading to Word 2002
- Upgrading to Excel 2002
- Upgrading to Powerpoint 2002

To take advantage of this offer, call us to place your order

Offer closes March 31 2002*.

* All training must be booked and undertaken by March 31/ 2002.

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IPEX SYSTEM



	SYSTEM 1:	SYSTEM 2:
Form Factor	Ipex Slim Office case	Ipex Micro Office case image not pictured
Processor	Intel® Celeron™ 1.1 GHz	Intel® Pentium® 4 1.6 GHz
HDD	20 GB	20 GB
RAM	128 MB	128 MB
LAN	Onboard	Onboard
Video	Onboard	32MB TNT
Sound	Onboard (no speakers)	Onboard
CD-ROM	Ipex 52x	Ipex 52x
Keyboard	Ipex104 key PS/2	Ipex104 key PS/2
Mouse	2 button PS/2 Wheel	2 button PS/2 Wheel
OS	Windows® XP Pro	Windows® XP Pro
Software	MS Office® Small Bus Ed	MS Office® Small Bus Ed
Warranty	3 Years RTB	3 Years RTB
Freight	Included	Included
Part #	(D9310)	(D9311)
	\$1,799	\$2,099
Rent*	\$19.71/wk	\$23.00/wk



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The figures quoted are based on a per week basis over 3 years. T.A.P. Terms & Conditions apply.

Ask
About...



- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

IPEX MONITORS

Ipex 15"	CRT monitor add (C5931)	\$315
Ipex 17"	CRT monitor add (C5932)	\$419
Ipex 15"	LCD monitor add (C9400)	\$965
Ipex 17"	LCD monitor add (C9401)	\$1,749



Monitors, Cameras, CD-R/RW, Back-Up Kits



24x - 1x Write,
10pack, 700MB/
80min CDR in
Standard
Jewel Case
(C5454)
\$15



24x - 1x Write,
10pack, 700MB/
80min CDR in
Slim Jewel
Case
(D8797)
\$13



24x - 1x Write,
25pack, 700MB/
80min CDR on a
spindle
(D8798)
\$29



24x - 1x Write,
50pack, 700MB/
80min CDR on a
spindle
(D8799)
\$54

**NO FURTHER
DISCOUNTS
AVAILABLE
ON...**
**ALL SONY
NOTEBOOKS
& ACCESSORIES
SOLD FROM
HARRIS
TECHNOLOGY.**

FEB

14

CPD-G420

FD Trinitron

- 19" FD Trinitron Display
- 0.24-0.25mm Aperture Grille Pitch
- 4 Way Powered USB Hub
- Dual Switchable Inputs (HD15 & BNC x 5)
- Compact, Low-Rise, Two-Tone Cabinet
- Maximum Resolution 1920 x 1440 @ 60Hz
- Sony 3-year Warranty



(B7964) **\$1,250**

Flat Display Trinitron Monitors

CPD-G520

FD Trinitron

- 21" FD Trinitron Display
- 0.24mm Aperture Grille Pitch
- 4 Way Powered USB Hub
- Dual Switchable Inputs (HD15 & BNC x 5)
- Compact, Low-Rise, Two-Tone Cabinet
- Maximum Resolution 2048 x 1536 @ 60Hz
- Sony 3-year Warranty



(B7966) **\$2,195**

DSC-P3

Memory Stick Digital Still Cyber-shot Camera

DSC-P3 Cybershot Memory Stick Camera

- 2.8 Mega Pixel
- 3x Precision Digital Zoom
- AF Illuminator
- MPEG Movie EX
- ISO Sensitivity
- 2x Burst Mode
- 1.5" LCD & View Finder
- Max Resolution (1920x1440)



Cyber-shot (D1555) **\$1,145**

DSC-P5

DSC-P5 Cybershot Memory Stick Camera

- 3.2 Mega Pixel
- 3x Optical Zoom (6x Digital Zoom)
- Clipmotion
- Super HAD Technology
- MPEG Movie EX
- ISO Sensitivity
- 1.5" LCD & View Finder
- Max Resolution (2048x1536)



Cyber-shot (D3791) **\$1,559**

External CD-R/RW Kit

CRX1600LEK

- 12W x 8RW x 32 R
- i-LINK/IEEE 1394 FireWire interface
- Accelerated Audio Modes
- Recording software supplied



(C4442) **\$587**

CD-R/RW Kit

24W/10RW/40R Memory Stick CDRW

- Two high speed removable Media drives in one
- Writes and Re-writes to Memory Stick and CD-R/RW Media
- Sony PowerBurn technology
- Recording software supplied



(C9879) **\$399**

AIT Back-Up Kit



Advanced
Intelligent
Tape

- 35-90GB, AIT-1A
- Back-Up Software supplied
- Includes cables and easy installation guide
- 3-year On-Site Exchange Warranty



External Drive
(C7478) **\$3,047**

Internal Drive
(C7480) **\$2,819**

DDS Back-Up Kit



Digital
Data
Storage

- 20-40GB, DDS-4
- Back-Up Software supplied
- Includes cables and easy installation guide
- 3-year On-Site Exchange Warranty



External Drive
(C6692) **\$2,587**

Internal Drive
(C6114) **\$2,010**

CD-RW / DVD Combo Drive, XP Home Edition

PCGR505AFT

- Pentium® III 850MHz
- 12.1" XGA Display
- Windows® XP Home Edition
- Docking Station Included
- CD-RW/DVD Drive
- 256MB RAM
- 30GB Hard Drive
- Internal 56kbps Modem
- Network interface
- MG Memory Stick Slot
- USB interfaces
- i.LINK (IEEE1394) interface



(D4416) **\$5,199**

Rent* \$47.39/wk

Software supplied with notebooks:

- Adobe Photoshop Elements
- MovieShaker 3.2
- Symantec Norton AntiVirus 2002
- Intervideo WinDVD™ 3.1
- Adobe Acrobat Reader 5.0
- Apple Quicktime 5.0
- DVgate 2.4
- SonicStage 1.0
- PictureGear 5.1
- Smart Capture 4.2
- VisualFlow 2.1

PCGFX990

- Pentium® III 1GHz
- 15" XGA Display
- Windows® XP Home Edition
- CD-RW/DVD Drive
- 128MB RAM
- 20GB Hard Drive
- Internal 56kbps Modem
- Network interface
- i.LINK (IEEE1394) interface
- 2x USB interfaces
- Video Out



(D4414) **\$4,899**

Rent* \$45.78/wk

PCGR505AGT

- Pentium® III 750MHz
- 12.1" XGA Display
- Windows® XP Home Edition
- Docking Station Included
- CD-RW/DVD Drive
- 128MB RAM
- 20GB Hard Drive
- Internal 56kbps Modem
- Network interface
- MG Memory Stick Slot
- USB interfaces
- i.LINK (IEEE1394) interface

(D4417) **\$4,899**

Rent* \$45.78/wk

PCGFX900

- Pentium® III 850MHz
- 14.1" XGA Display
- Windows® XP Home Edition
- CD-RW/DVD Drive
- 128MB RAM
- 15GB Hard Drive
- Internal 56kbps Modem
- Network interface
- i.LINK (IEEE1394) interface
- 2x USB interfaces
- Video Out

(D4415) **\$3,999**

Rent* \$37.37/wk

Memory Stick

Sony's tiny Memory Stick lets you enjoy seamless recording, transfer, storage and playback of audiovisual and other data, through a wide range of Memory Stick compatible products.

16MB (86779) **\$69**
32MB (88654) **\$99**
64MB (88648) **\$169**
128MB (C5887) **\$329**

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ALL SONY NOTEBOOKS AND ACCESSORIES SOLD FROM HARRIS TECHNOLOGY.



Coming Soon!

FEB 15



Your Data, Job, Life?

The ABS is the easiest way invented to backup your desktop. It protects and extends everything you do on your computer so you can continue thinking, creating, playing.

- *ABSplus Desktop
- Automatic Launcher Technology • Multipurpose Backup & External Storage • Fast, Safe, Secure & Reliable • Single File or Full Restore • Incremental Backup • Data Stored in Native File Format • New Scheduler Technology! Bundles with USB 2.0 or FireWire PCI cards also available.

CMS 20GB USB2.0 ABS For Desktop

(D9250) **\$899**

CMS 20GB FireWire ABS For Desktop

(D9251) **\$899**

*ABSplus PCMCIA

- Fully Bootable Drive • Automatic Launcher Technology • Multipurpose Backup & External Storage • Fast, Safe, Secure & Reliable • Single File or Full Restore • Incremental Backup • Optional Password Protection • New Scheduler Technology!

CMS 10GB Automatic Backup System PCMCIA

(D9244) **\$715**

*Large capacity drives available, for all models.



USB Converter
The USB to PCMCIA Converter enables you to link your PCMCIA ABSplus to any USB compatible desktop computer. The added capability to easily and seamlessly transfer, synchronize, and backup data between your notebook and desktop computers.

CMS USB to PCMCIA Converter

(D9243) **\$264**

*ABSplus Portable

- Available in USB 2.0 & FireWire
- Automatic Launcher Technology
- Multipurpose Backup & External Storage
- Fast, Safe, Secure & Reliable • Single File or Full Restore • Incremental Backup
- Data Stored in Native File Format • New Scheduler Technology!

CMS 10GB ABS USB 2.0 (D9245) **\$715**

CMS 10GB ABS FireWire (D9246) **\$715**

Web Direct

See Web Direct Link

(at top of page) for more products and latest info!



Prices are subject to change. Check here for latest prices & products!!

Easy hard drive partitioning

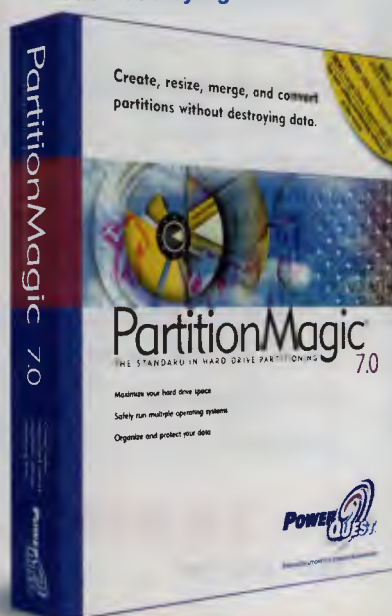
DriveCopy™ V4.0



PowerQuest® allows you to copy and upgrade your hard drive with ease. In a few simple steps your current hard drive is automatically copied to your new one without losing a single preference, setting or byte of data.

(D1901) **\$81**

Create, Resize, Merge and Convert partitions without destroying data!



PartitionMagic® V7.0

PartitionMagic® V7.0 allows you to create, resize, merge and convert partitions on your hard drive without destroying data. Award-winning PartitionMagic is the world's leading hard drive partitioning software for PC enthusiasts.

New Functionality in PartitionMagic 7.0

- Merge NTFS partitions
- Support for Windows XP
- Partition hard drives as large as 80 GB
- Access and partition external USB drives
- Undelete a deleted partition from rescue disks

Other Powerful Features:

- Organize and protect the information on your hard drive
- Easy, step-by-step wizards help you perform partitioning tasks
- Preview the effects of partitioning your hard drive before implementing anything
- Safely manage multiple operating systems
- Convert from one file system or partition type to another without losing data
- Supports FAT, FAT32, NTFS, and Linux ext2/ Swap file systems

(D0082) **\$142**

Drive Image® V5.0



Drive Image® V5.0 helps keep the data on your hard drive safe. Whether you want to create an exact image of your hard drive for easy recovery, or upgrade to a new system, you can depend on the proven technology of Drive Image.

Features:

- Schedule regular, automatic backups of your entire hard drive or individual partitions.
- Create & restore data quickly & easily.
- Automatic file backup to an external drive or separate partition.
- Support for a wide variety of CD-R/W drives, including IDE, SCSI and PCMCIA drives.

Other Powerful Features

- Custom-build your own Virtual Floppy files.
- Supports hard drives up to 80 GB, as well as support for FAT, FAT32, NTFS, HPFS and Li-nux ext2/swap file systems.
- Conveniently resize on the fly by automatic resizing partitions to fit within either smaller or larger hard drive.

(D0688) **\$147**

16

Power Back Up = Power Protection

● APC Surge Arrest-PNote Pro[®]



Surge
Arrest 5 Strip
(A0098)
\$55

An APC SurgeArrest is your guarantee that your hardware and valuable electronics are protected regardless of lightning strikes and everyday unexpected power surges. SurgeArrest also offers the best protection from line noise which can cause glitches and errors in electronic operations and computer data.

PNote Pro
(99592)
\$49

The SurgeArrest Notebook Pro Surge Protector provides the mobile notebook professional with advanced AC and telephone line protection. The unique, in-line design creates a compact, lightweight surge protector that is truly portable and appropriate for use in any country throughout the world. With built-in Excess Current Detection, the Notebook Pro warns you against potential modem damage. A Velcro mounting strap and 6 ft. telephone cord eliminate the need to carry any additional accessories.



Ask
About...



● APC Back Ups Pro[®] for Workstations

Smart battery backup & high performance surge suppression for Windows 95 & NT PCs

- PowerChute[®] Plus software lets your UPS shut down your applications gracefully in the event of an extended power failure
- Additional outlet for protection of printers
- Audible alarms
- Phone/modem protection
- User replaceable, hot swappable batteries



APC Back-UPS Pro **280si** (76636) **\$259**

APC Back-UPS Pro **420si** (76637) **\$349**

APC Back-UPS Pro **650si** (76638) **\$485**

● APC Smart-UPS Rack Mounts[®] for Servers

Smart-UPS 700, 1000, and 1400 2U Rack Mounts

Network power protection to increase availability of your system. APC Smart-UPS 2U Rackmount features include longer runtime to keep your system safe and a 2U design to save your valuable rack space by 30%. Hot swapping batteries is also now faster and easier with the replacement battery chassis tray.



APC Smart-UPS **2u700VA** (99595) **\$715**

APC Smart-UPS **2u1000VA** (99596) **\$1,045**

APC Smart-UPS **2u1400VA** (99597) **\$1,465**

Back-Ups for PC's!

350va
(C5446)

\$155

500va
(C5878)

\$220

650va
(56231)

\$279



APC Symmetra

Power Array
8kVA, exp. to
16kVA
(71087)

\$13,999

So good we use it ourselves!

FEB

17

Network storage you can use

MaxAttach™ network storage



Windows platform enabled storage solutions

MaxAttach NAS 4000 Storage Server

- Windows, UNIX/Linux, NetWare and Macintosh file sharing
- NAS Powered by Windows operating system
- RAID Levels 0,1, and 5 data protection
- ADS/NDS/NIS Support
- SCSI port for Back-up
- No per-client licence
- Up to 640GB in 1U
- NAS4000 Series has Gigabit Ethernet

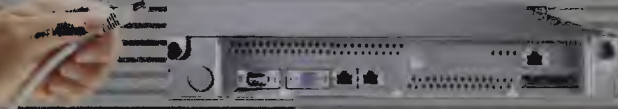
MaxAttach NAS 6000 Storage Server

NEW

- Highly scalable: 1.9TB to 5.7TB
- Redundant hot-swappable components for high system availability
- PSM snapshot software and hardware RAID for high data available
- 1 yr next-business day onsite service included, Lifetime 24x7 Technical Phone Support



The new MaxAttach NAS 4100 storage servers deliver seamless integration. With a Windows Powered operating system, the NAS 4000 series is network storage that you can manage with the tools you have now. From backup support, to device management, to directory services, the NAS 4000 series is the new network storage solution that you already know how to use.



- 640GB in 1U height
- PSM snapshot capability
- RAID 5, 1, and 0 data protection
- Active Directory support
- External SCSI port for local tape back-up
- Gigabit & dual 10/100 Ethernet ports
- Windows, UNIX/Linux, NetWare and Macintosh file sharing
- NAS Powered by Windows operating system

Combining the proven interoperability of a Windows-based platform with scalability to 5.7TB, the MaxAttach NAS 6000 file server enables unprecedented storage solutions. Pre-configured and ready to install, the NAS 6000 includes PSM snapshot software and hardware RAID 5 for high data availability. Redundant components deliver high system availability. To further ensure high uptime, one year of next-business day onsite service is included, with 4-hour response upgrades available.

- All MaxAttach products include 24x7 phone technical support.
- Offering interoperability certified by leading software vendors, the NAS 6000 starts at less than \$70,000 (MSRP) for a 1.9TB configuration.



NAS 4100	320GB	(B9955)	\$8,854 Rent* \$75.59/wk
NAS 4300	400GB	(C9243)	\$9,949 Rent* \$84.94/wk
NAS 4300	480GB	(D9180)	\$10,995 Rent* \$93.88/wk
NEW NAS 4300	640GB	(D1510)	\$13,746 Rent* \$112.61/wk

1.9TB Base Unit
(D9177) **\$66,699**

**1.9TB
Expansion Unit**
(D9179) **\$55,975**



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(at top of page)
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and
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RENTSMART

The figures
quoted are
based on a
per week
basis over 3
years. T.A.P.
Terms &
Conditions
apply.

FEB
18

GO GIG NOW Empower the Ethernet Evolution

COMPLETE RANGE OF GIGABIT SOLUTIONS AVAILABLE NOW from INTEL

Take advantage of Intel's products to help you implement Gigabit technology, and get more bandwidth for less. Network demand is out growing current infrastructure. Fight bottlenecks with industry leading performance – 1000Mbps of throughput over copper or fibre connection for greater distance with less noise.

NEW

Gigabit to the Desk, NEW Intel Gigabit Desktop Adapter

Intel PRO/1000T Desktop adapter, give your high-performance desktops the bandwidth they need. Flexible 10/100/1000 connectivity for easy migration, designed for multi-tasking with today's large files and demanding applications.



PWLA8390T PRO/1000T Desktop Adaptor	(D5958) \$219
PWLA8390 PRO/1000T Desktop Adapter 20pk-OEM	(D9287) \$3,879



HARRIS TECHNOLOGY.
for all your computer needs!

Wine on-line?



vintagecellars.com.au

NEW

Gigabit Server Adapters For Mainstream Copper-Based Networks

Intel® PRO/1000 XT Server Adapters feature advanced auto-sensing and auto-negotiating technology. With this capability, IT managers can deploy adapters into existing Category 5 Ethernet (10 Mbps) or Fast Ethernet (100 Mbps) networks. As the network infrastructure evolves, the adapters will automatically adjust performance to higher Gigabit Ethernet (1000 Mbps) speeds without additional configuration. To help solve network bottlenecks created by bandwidth-intensive applications, such as data warehousing, IP storage and video streaming, organizations are now beginning to deploy Gigabit Ethernet technologies across their entire LAN that allow data to travel over a network at 1 billion bits per second (or 1,000 Mbps).



PWLA8490 PRO/1000XT Gigabit Server adaptor	(D5959) \$339
PWLA8490 PRO/1000XT L Gigabit Server adaptor (Low Profile)	(D9288) \$329
PWLA8490 PRO/1000XT L5PK Server adaptor (Low Profile) – 5 Pack	(D9291) \$1,449

Ask About...



- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

NEW

Gigabit Fibre Server Adapters

Featuring the third-generation Intel® 82544EI Gigabit Controller, the Intel® PRO/1000 XF Server Adapter increases server uptime and provides easy-to-manage, multi-Gigabit scalability. The new self-configuring PCI-X interface and TCP checksum offload feature increase throughput while reducing CPU utilization.



PWLA8490 PRO/1000XF Gigabit Fibre Server adaptor (D9289)	\$1,299
--	----------------





NETGEAR™

Prices are subject to change. Check here for latest prices & products!!

Web
Direct

www.nr.com.au/canetgear

Everybody's Connecting

Network Cards

FA 311
Ethernet
Adapter
10/100 PCI
(A1372)
\$42



FA 312
10/100
Wake on Lan
Ethernet
Adapter
(A1373)
\$45

FA 411
10/100
Mbps PC Card
(Without
dongle)
\$129



(B9944)
FA511
10/100
CardBus PC
Card (without
dongle
(D4112)
\$139

NETGEAR Starter Kits

Everything you need to
start networking right
away. Within a few
minutes you will be
able to share files and
printer, exchange
emails, play interactive
games and share
access to the internet.

SB 105

5-Port/10Mb Hub
2x10/100, PCI,
cables, internet
sharing software
(A3293)
\$129

FB 105 5-Port/
10/100M Switch
2x10/100, PCI,
cables, internet
sharing software
(A3935)
\$229

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Switches



FS 116

FS 105 5 port 10/100
autosensing switch (84722) **\$159**

FS 108 8 port 10/100
autosensing switch (70905) **\$249**

FS 116 16 port 10/100
autosensing switch (A5347) **\$512**

FS 516 16 port 10/100 auto-sensing
and internal PSU/Vista (60522) **\$859**

FS 524 24 port 10/100 switch
(77549) **\$979**

FS 524S 24 port 10/100 switch -
stackable (B6540) **\$1,639**

Modular Solutions

FS726 24 Port 10/100, 2 Module slots



(D0873)

\$1,485

FS750 48 Port 10/100, 2 Module slots



(D0874)

\$2,495



AG711T
Copper module

(D0921)

\$729



AG711F
Fibre module

(D0924)

\$1,049

Managed Solutions



FSM 726S - Managed 24 port
10/100 switch with 2 stacking ports
and 2x Gigabit ports
(D8885)

\$Call

FSM 750S Managed 48 port
10/100 switch with 2 stacking ports
and 2x Gigabit ports
(D8886)

\$Call

Gigabit Solutions

These high performance Gigabit switches provides either fibre or copper backbone connectivity for power workgroups, data centres and server farms. No additional modules are required - each product is ready to install straight from the box.

GA 302T 32 bit PCI
Gigabit network card
(D4118)

\$195

NEW
GS516T 16 port
10/100/1000 Mbps
Gigabit Switch.

(D5960) **\$4,989**

GA 622T 32/64 bit PCI
Gigabit network card
(B9943)

\$355

GS 504T 4 port
100/1000 (Copper)
(A1375)

\$2,449

FS 309T Gigabit Uplink
Energizes Your Network
(D8887)

\$779RRP

FS 518T 2 port 100/1000
with 16 ports 10/100
(A1374)

\$2,135

NEW
GS524T 24 port
10/100/1000 Mbps
Gigabit Switch
(D5961)

\$6,450

GS 508T
8 port 100/1000 Gigabit
switch
(B9916)

\$2,899

FS 517TS 1 port
100/1000 and 16 port 10/100
stackable switch (copper)
(C2299)

\$1,649

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NETGEAR™

Prices are subject to change. Check here for latest prices & products!!

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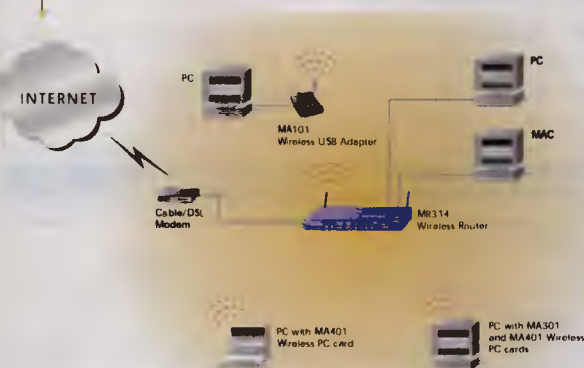
www.ht.com.au/cat/netgear

Everybody's Connecting



Wireless

The NETGEAR wireless family means that you never have to be tied down by your cabling again. Whether you are looking to add to your wired Ethernet network or set up a new network these standards based 802.11b products allow you to share network resources without the need for cabling. These plug and play devices are easy to install are WiFi certified and come with WEP encryption.



NETGEAR Wireless products provide the following benefits



MR 314

Cable/DSL router with integrated 4 port 10/100 switch & built in access point

(C5223) **\$639**



ME102

Wireless Access Point

(B9929) **\$619**



MA301

PCI Adapter cradle

(B9927) **\$98**



MA 101 Wireless USB Adapter

(C7110) **\$315**



MA401 PCMCIA Adapter

(C8117) **\$Call**



Routers

NETGEAR have a comprehensive range of Cable/DSL routers. All products offer standard shared internet access with NAT Firewall security and easy installation via web based configuration and DHCP. The products are plug and play and are ideal for connection to either Cable/DSL or satellite broadband services. www.netgear.com.au offers specific installation information on both Telstra and Optus services.



RT 311 Cable/DSL router with 1 10/100 port
(97719) **\$299**



RP114 Cable/DSL router with integrated 4 port 10/100 switch and ability to control web content
(C5592) **\$375**

R0318 Cable/DSL Security router with integrated 8 port 10/100 switch
(C4896) **\$510**

FR318 Cable/DSL firewall router with integrated 8 port 10/100 switch upgrade to vpn end point
(D1526) **\$748**

FV318 Cable/DSL VPN Router includes 5 VPN end points, firewall and integrated 8 port 10/100 switch
(C2298) **\$1,663**

RT 314 Cable/DSL router with integrated 4 port 10/100 switch
(A8862) **\$389**

Enquire for pricing on Netgear 10 Mbps hubs.

Printer Servers

The NETGEAR print servers enable you to connect your printers to a network for sharing amongst multiple PC's.



PS 110 10/100 Mbps Print Server, 2 parallel ports
(67226) **\$265**

PS 113 10/100 Mbps Print Server, 3 parallel ports
(A3287) **\$405**

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Sales: 1300 13 9999
Fax: 1300 13 6666

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Email: sales@ht.com.au

HARRIS TECHNOLOGY. Technology Centre
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Networking & Communications Converged



LOCAL, STATE
OR FEDERAL
GOVERNMENT?
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Netcomm's
Smart
i-Share
modem
(SM4200)
Winner of
the PC
Authority
Quality
Award!

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FINANCE METHODS
ARE SUBJECT TO
APPROVAL.

NETCOMM WIRELESS LAN NETWORKING

NetComm have the complete range of wireless solutions for your environment, with 40-bit secure access. Connectivity from desktop to portable to PDA, NetComm have your Wireless LAN solution ready to be complete.



1. **NP7000** - WireLess LAN AccessPoint with 40-bit WEP data encryption, auto fallback data rates and 10Base-T Ethernet interface. (D4196) **\$605**
2. **NP7030** - WireLess LAN PCMCIA adaptor with 40-bit & 128-bit WEP data encryption, type II PCMCIA interface. (D4198) **\$305**
3. **NP7040** - WireLess LAN USB Adaptor with 40-bit WEP data encryption and 12Mbps data rate USB interface. (D4199) **\$349**
4. **NP7050** - WireLess LAN Compact Flash Adaptor for PDA's with 40-bit WEP data encryption and PCMCIA adaptor. (D4200) **\$399**

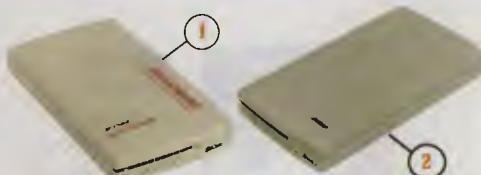
NETCOMM FAST ETHERNET SWITCHES

NetComm switches deliver high performance 10/100 technology in to both large and small networks in a compact affordable package.



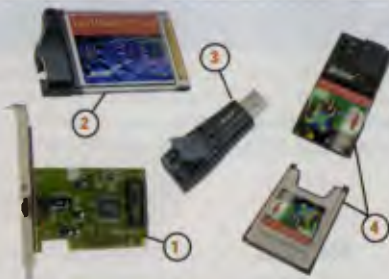
1. **NP2005** - 5 Port 10/100Mbps Auto-sensing Network SmartSwitch, Intelligent 'Store & Forward Technology', Durable mini metal case, external plug-pack. (D0966) **\$139**
2. **NP2008** - 8 Port 10/100Mbps Auto-sensing Network SmartSwitch, Intelligent 'Store & Forward Technology', Durable mini metal case, external plug-pack. (D0967) **\$199**
3. **NP2080** - 8 Port 10/100Mbps Auto-sensing High-Performance Network ProSwitch, Intelligent 'Store & Forward Technology', Universal 240volt power supply. (D0968) **\$229**

INTERNET GATEWAY/ROUTER/FIREWALL/HUB



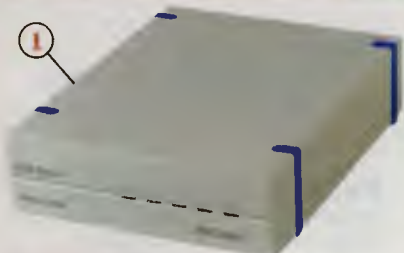
1. **SM4300** - SmartAccess Broadband/Cable Internet Gateway featuring Router, Firewall, WAN & Serial ports plus 4 port 10Base-T network hub. (C5432) **\$359**
2. **SM4200** - Smart I-Share 56 Internet sharing Gateway featuring Router, Firewall, Built-in 56K V.90 Modem, Serial port plus 4 port 10Base-T network hub. (A8868) **\$454**

NETWORK INTERFACE ADAPTORS



1. **NP1100** - High performance auto-sensing 32bit 10/100Mbps Fast Ethernet PCI LAN adaptor featuring Wake-On-LAN function. (C7657) **\$29**
2. **NP1200** - 10/100Mbps Fast Ethernet 32bit PC Card with TruConnect technology, direct LAN connection, no dongle required. (D1166) **\$99**
3. **NP1010** - USB LAN Key 10/100Mbps Fast Ethernet adaptor connects PC's to LAN via a USB port with no need to reboot. (C7651) **\$88**
4. **NP1300** - Compact Flash 10Base-T Ethernet adaptor for PDA's and Notebooks includes PCMCIA adaptor. (D4201) **\$139**

NETWORK ATTACH STORAGE



1. **NAS-1000 Disk Server Series** - Add gigabytes of accessible, fast, hard-disk-drive storage to your network, without the cost, space, set-up and maintenance hassles of a fully-fledged file server. Features 20, 40, 60 & 80 Gigabyte models, In-built network print server, 10/100Mbps Fast Ethernet auto-sensing LAN connection, Simple configuration and administration, Full user - share & file level security.

NAS1020 (D0848) **\$1,299**

NAS1040 (D0849) **\$1,749**

NAS1060 (D0850) **\$2,199**

NAS1080 (D0851) **\$2,550**

Intelligent KVM and USB Products

Serverlink KVM Switches

The ServerLink Infinity range of Auto KVM switches allow you to control multiple PCs or network servers with one monitor, keyboard and mouse. All ServerLink KVM switches feature **On-Screen-Display** and keyboard & mouse emulation to guarantee error free switching and flawless booting.



ServerLink Infinity Range

SERVERLINK
INFINITY



SL-221	2 port ServerLink KVM for PS/2 only	(B3047)	\$270
SL-221-P	2 port ServerLink KVM inc. 2 x 2m PS/2 cables	(B3048)	\$317
SL-421	4 port ServerLink KVM for PS/2 only	(A9890)	\$349
SL-421-P	4 port ServerLink KVM inc. 4 x 2m PS/2 cables	(B2759)	\$440
SL-821	8 port ServerLink KVM for PS/2 only	(97888)	\$979
SL-821-P	8 port ServerLink KVM inc. 8 x 2m PS/2 cables	(97889)	\$1,159
SL-1621	16 port ServerLink KVM for PS/2 only	(97890)	\$1,599
SL-1621-P	16 port ServerLink KVM inc. 16 x 2m PS/2 cables	(97891)	\$2,019
SL-CKP-02	2m 3-in-1 Comp. to ServerLink cable for PS/2	(63972)	\$27
SL-CKP-03	3m 3-in-1 Comp. to ServerLink cable for PS/2	(D0973)	\$38
SL-CKP-05	5m 3-in-1 Comp. to ServerLink cable for PS/2	(63976)	\$59



Cybox AutoView 200 KVM Switch

Control up to 8 computers simultaneously from 2 locations. The second user can be up to 150 metres away using standard Cat5 UTP cabling.

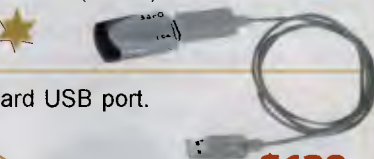


AV200R-8	2 user 8 port KVM switch for PS/2 & AT/Serial	(97950)	\$2,965
RMK-33	19" Rack mount kit for AV200R-8	(77284)	\$55
CIFCA-4	1.2m 3-in-1 Comp. to AutoView cable for PS/2	(B6728)	\$84
CIFCA-8	2.6m 3-in-1 Comp. to AutoView cable for PS/2	(B9703)	\$120
CIFCA-15	5m 3-in-1 Comp. to AutoView cable for PS/2	(B5488)	\$196



Comsol USB to IrDA Adapter

This adapter is for enabling IrDA wireless data communication through a standard USB port. Ideal for wireless data transfer between desktop PC and notebook or PDA.



UIR-100	USB to IrDA wireless adapter	(D8944)	\$129
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Comsol USB Adapter Cards

UPCI-100	2 port USB PCI controller card	(B4493)	\$44
UPC12-100	5 port USB 2.0 PCI controller card - 480 Mbps	(D8945)	\$124

Comsol FireWire Solutions

1394-PCI	3 port IEEE1394 FireWire PCI card	(D8946)	\$79
1394-601	6 port IEEE1394 FireWire Repeater	(D8947)	\$148



Comsol USB Hubs

UH-201	2 port USB Hub	(82695)	\$47
UH-401	4 port USB Hub	(82696)	\$61
UH-701	7 port USB Hub	(82697)	\$105



Comsol USB Converters

UPC-100	USB to IEEE1284 printer converter	(82692)	\$55
UMC-100	USB to RS232 9 pin serial converter	(80782)	\$70
UEC-100	USB to 10/100 Ethernet converter	(82594)	\$145
UKMC-100	USB to PS/2 KB & Mouse converter	(B0557)	\$70
USC-100	USB to SCSI 2 (HPD50M) converter	(D0937)	\$180



Web Direct
See Web Direct Link (at top of page) for more products and latest info!

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Not all items are in stock at all stores but can be ordered for Pick-up or Delivery*
Delivery charges extra.

Prices are subject to change. Check here for latest prices & products!!

Web Direct

www.ht.com.au/cat/belkin

Belkin Surge & Ups

UPS SERIES

Regulator PRO Silver Series



Features:

- 2 Year Unlimited Product Warranty
- 175 Joule Energy Rating
- 3 Battery Back Up/Surge Sockets
- 1 Surge Protection Only Socket
- Power Management Software Included
- 1.8m Power Cord
- Telephone/Fax/Modem and UTP (RJ45) Protection
- 1.83m Telephone Cable
- RS-232 Communication Cable
- EMI/RFI Filtration

350VA

F6C350zSER-SB
(192 Watts)

(C9277)

\$189

500VA

F6C500zSER-SB
(300 Watts)

(C9278)

\$249

650VA

F6C650zSER-SB
(360Watts)

(C9279)

\$329

Surge control is important because even small surges or spikes can eventually destroy or affect the performance of expensive electronic equipment such as a computer, phone, fax, TV, VCR, stereo or microwave. Damage can occur either instantaneously or over time as smaller surges cause the gradual deterioration of internal circuitry, to voltage fluctuations.

No Hassle Warranties Belkin offer the best Connected Equipment warranties in the business. Full warranty protection means your equipment is insured against damage due to power disturbances of all kinds - surges, spikes, even lightning strikes.

Connected Equipment
Warranties up to \$25,000.

Home Office Range

F5C205z4

Belkin's SurgeMaster line has been designed to protect entry-level computers, dot matrix printers, personal copiers and all other sensitive electronics in the home or office. Telephone/fax/modem protection

5 socket's

27,000 Amps of AC protection

(C4603) **\$79**

Connected Equipment
Warranty up to \$50,000 .

Superior Grade

F5C206z2

Pentium III computers, audio/video equipment and office equipment need extra protection.

- 6-way Superior Grade range

AC Line protection

Blocked space adapters

(C4604) **\$105**

Connected Equipment
Warranties up to \$80,000.

Maximum Grade

F5C208z2

Maximum Grade series ideal for protecting commercial business computers, ADSL and cable modems, high-end printers and copiers, and sensitive audio/video equipment such as satellite receivers and home cinema systems.

8 socket's

39,000 Amps of AC protection

(C4607)

\$135

PDA ACCESSORIES



Belkin PDA Portable Keyboard Palm 3/5/7
(D5946)

\$159

F5U109
USB PDA Adapter

(B6768)

\$59



Belkin 4-in-1 Stylus Pen
(C4694)

\$35

New From Belkin For 2002

USB 4 Port Economy HUB Single Surge Cube

F5U021-AUS

Add four USB peripherals to your PC and save your precious desktop space without adding clutter. Get Plug-and Play convenience as you add USB printers, scanners, and hard drives.

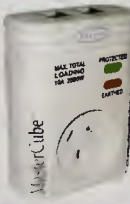


(D5950) **\$45**

F5C195z

(D5966) **\$25**

The SurgeCube™ allows one electronic device to be protected from over voltages. It's ideal for laptops on business or personal trips, or for surge protection in a small space.



F5C195zTEL

The Belkin MasterCube™ protects one electronic device and one phone line from over voltages. Perfect for use with laptops on business or personal trips.

(D5956) **\$35**

USB IPAC Sync Charger

F8Q1000

The Belkin SYNC CHARGER CABLE for the iPAQ Pocket PC allows you synchronise and charge through any powered USB port with Ease.



(D5952) **\$45**

Don't Forget...

USB VideoBus II

F5U208

You create the show yourself with your PC & camcorder merged into a desktop video studio by the Belkin USB VideoBus II. The Belkin USB VideoBus II, complete with MGI VideoWave III SE software, gives your PC the power to make stunning movies & more!



(B4412) **\$145**

USB Pocket Hub

F5U007-UNV-AUS

The Belkin Pocket Hub allows you to instantly connect USB devices such as printers, scanners, external mice and keyboards, joysticks, digital cameras, or other USB hubs without having to restart your computer.



(C4577) **\$65**

Stone Street

F3L900-07-ICE-S

The Stone Street has a fully padded computer section that measures 38.11cm x 27.95cm x 10.16cm, for the most popular notebook style computers, and a fully equipped external pocket which measures 35.57cm x 25.41cm x 6.99cm. The Belkin High Speed Internet Modem cable transmits 10 times faster than any normal telephone cable for a clean, and clear transmission.



*FREE cable comes bundled with this part, available while stocks last

(D5951) **\$69**

*FREE 2.1M HIGH SPEED INTERNET MODEM CABLE!

FEB

24

HARRIS TECHNOLOGY™

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FINANCE METHODS ARE SUBJECT TO APPROVAL.



Prices are subject to change. Check here for latest prices & products!!

Web
Direct

www.ht.com.au/cat/belkin

Belkin Networking Solutions

ETHERNET NETWORK



WIRELESS NETWORK



Cables are not included in prices

Web
Direct

See
Web
Direct
Link

(at top of page)
for
more
products
and
latest
info!

Wine
on-line?



vintagecellars.com.au

Belkin - KVM Switches

KVM ESeries

KVM SoHo Range (Keyboard, Video, Mice & Sound Switching)

F1DB102P

Economy-
2 Port KVM Switch - P/S 2



(D3162) **\$95**

F1DB104P

Economy-
4 Port VM Switch - P/S 2



(D3159) **\$176**

F1DS102P SoHo

2 Port KVM Switch - P/S 2



(D3163) **\$289**

F1DS104P SoHo

4 Port KVM Switch - P/S 2

(D3166) **\$369**

F1DS102T SoHo

2 Port KVM Switch - P/S 2 & USB

(D3165) **\$349**

F1DS104T SoHo

4 Port KVM Switch - P/S 2 & USB

(D3167) **\$449**

Don't forget to include your Belkin All-In-One cables The easiest & neatest way to connect all your computers and servers to your PS/2 & USB KVM switches, providing image clarity for high-resolution applications.

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Email: sales@ht.com.au



Order on-line
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FEB

25

Small-Medium Business Networks

ADSL Modem /Router

DSL-504 ADSL Router with 4 port 10/100 Switch Connect single or multiple PC's on an Ethernet LAN to an ADSL

(C7593)

\$629



DSL-200 USB ADSL Modem. Plug and Play USB interface with the host PC through a USB port

(B7197) **\$299**

DSL-300 Ethernet ADSL Modem Connect single or multiple PC's on an Ethernet LAN to an ADSL

(B7198) **\$399**

DSL-100D Internal PCI ADSL Modem Compatible for Windows based PC's to connect via G.lite or G.dmt

(B7196) **\$229**

DSL-500 ADSL Router Connect single or multiple PC's on an Ethernet LAN to an ADSL

(D0801) **\$435**

IP Router for ADSL/Cable Modem

New Product

DI-713P 11 Mbps Wireless IP Router for xDSL and Cable modems with 3-port 10/100M switch and print server

(C7596)

\$745



DI-804 IP Router for DSL and Cable Modems with 4-port 10/100Mbps Switch.

Bigpond Cable Login Built-In

(C2361)

\$369

DI-701 10/100 IP Router for xDSL and Cable Modems. Internet ready.

(98249) **\$285**

10/100 Switches

DES-1024R+ 24-Port 10/100 Mbs Fast Ethernet Switch, Optional 2-Port 100 Base FX Fiber (DES-102F)

(98256)

\$849



DES-1005D 5 Port 10/100Mbps Fast Ethernet Switch with 5 x N-Way UTP Ports. Palm Size

(85101) **\$149**

DES-1008D 8 Port 10/100Mbps Fast Ethernet Switch with 8 x N-Way UTP Ports. Palm Size

(98254) **\$239**

DES-1016R+ 16 Port 10/100 Mbs Fast Switch, Optional 2-Port 100 Base FX Fiber (DES-102F)

(D4164) **\$699**

DES-1032 32 Port 10/100Mbps Fast Ethernet Unmanaged Switch with 32 N-Way UTP Ports. Rackmount Size

(B7165) **\$1,299**

Gigabit Solution

Copper Gigabit

DES-1009G Gigabit ethernet Switch 8 Port 10/100Mbps Unmanaged Switch with 1 Port 1000Base T Gigabit (Copper)

(D1196)

\$749



DGE-550T PCI Bus Copper (RJ45 Connector) Gigabit Ethernet Adapter

(C7658) **\$218**

DGS-1008T 8 Port Unmanaged Copper Gigabit Ethernet Switch. 8 x 10/100/1000 Mbps Auto Negotiating Port

(D9338) **\$call**

DES-1218 Gigabit Ethernet Switch Unmanaged - 16 Port 10/100Mbps with Optional 2 x 1000 Base T Ports (DES122T)

(B7166) **\$975**

Web Direct

See Web Direct Link

(at top of pag for more products and latest info!

For all your small to medium business and home network needs please call for more information and pricing. We have an extensive range of fantastic D-Link products on our database.

FEB

26

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Home Networking

Wireless Solutions

DWL-1500

D-Link Air 11 Mbps Wireless LAN Indoor Bridge with POE Ethernet to Wireless LAN multipoint Bridge or Access Point. Built in Power over Ethernet.

(D9147)

New Product

\$820



DWL-905 Wireless LAN Starter Kit. 2x DWL-650 & 1x DWL-1000AP

(C0713)

\$990

DWL-650 11 Mbps Wireless LAN PCMCIA Card

(A9247)

\$245

DWL-520 11 Mbps Wireless LAN PCI Adapter

(D9148)

\$365

New Product

DWL-1000AP 11Mbps Wireless LAN Access Point

(A9251)

\$584

Ethernet Networking

DFE-910

Performance Network Kit 2 x 10/100 MB PCI Network adapters

(88060)

\$275

DSS-5+ 5 Port 10/100 Mps Dual Speed Switch

(89269)

\$169

DSS-8+ 8 Port 10/100 Mps Dual Speed Switch

(C2935)

\$289

DE-805TP 5 Port 10 Base-T Ethernet Unmanaged Hub

(88048)

\$74

DFE-530TX+ PCI-bus 10/100M Fast Ethernet Network Interface Card

(88046)

\$42

DSS-16+ 16 Port 10/100 Mps Dual Speed Switch

(D1525)

\$528



USB Peripherals

DSC-100

USB Multi-purpose Digital Camera. Multi-purpose 100k digital camera, record up to 100 still images or 50 seconds of Video. Max Resolution of 352 x 288

(D0985)

\$137

New Product



DSB-500 2 Port USB PCI Adapter, provides PC with ability to connect USB devices

(D0984)

\$45

DSB-V100 USB Digital Video Capture Device, connect VHS camcorder or VCR to a PC

(C2366)

\$135

DU-H4 4 USB Type A ports for Downstream connection to 4 USB devices, 1 USB Type B port for Upstream

(79131)

\$82

DSC-350 Dual mode Digital Still camera, USB Multi-purpose 350k Digital Camera. Records up to 500 still images or 4.5 minutes of video. Max. resolution 1024 x 768

(B3268)

\$279

KVM Switches

DKVM-08LB

8 Port Keyboard-Video-Mouse Switch with Keyboard, Mouse & 15 "TFT LCD Screen", Connects up to 8 CPU's. Up to 8 DKVM-08LB can be cascaded supporting 64 CPU's. 19" Rackmount.

(D9145)

\$4,053

New Product

DKVM-2

2 Port Keyboard-Video-Mouse Switch. Connect up to 2 CPU's to one Keyboard, Video & Mouse.

(C7576)

\$169

DKVM-4 4 Port Keyboard-Video-Mouse Switch.

Connect up to 4 CPU's to one Keyboard, Video & Mouse

(C7604)

\$340

DKVM-8 8 Port Keyboard-

Video-Mouse Switch. Connect up to 8 CPU's to one keyboard, Video & Mouse

(B2656)

\$849



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for all your computer needs!

Ask About...



- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

Not all items are in stock at all stores but can be ordered for Pick-up or Delivery#

HARRIS TECHNOLOGY.
Delivery charges extra.

Digital Memory & Readers

PRETEC CompactFlash



With CompactFlash Digital Film you can increase the storage capacity of any compatible digital camera or PDA.

16MB CompactFlash	(B2920)	\$45
32MB CompactFlash	(B2921)	\$62
64MB CompactFlash	(B2922)	\$105
96MB CompactFlash new	(D9286)	\$143
128MB CompactFlash	(B2923)	\$180
256MB CompactFlash new	(C0777)	\$449

PRETEC SmartMedia



SmartMedia cards expand the storage capacity of any compatible digital camera. Suitable for digital cameras from Olympus, Fuji and others.

8MB SmartMedia	(B2914)	\$29
16MB SmartMedia	(B2915)	\$33
32MB SmartMedia	(B2916)	\$55
64MB SmartMedia	(B2917)	\$115
128MB SmartMedia	(C3680)	\$265

PRETEC MultiMedia Cards



MultiMediaCard is the world's smallest removable flash storage card! Suitable for MP3 players, Mobile phones and Digital Video Cameras.

16MB MultiMediaCard	(B9871)	\$69
32MB MultiMediaCard	(B9873)	\$95
64MB MultiMediaCard	(B9878)	\$177

PRETEC Secure Digital Cards



Secure Digital media features faster data transfer rates and the ability to manually write-protect data.

16MB SecureDigital	(D4115)	\$77
32MB SecureDigital	(D4116)	\$120
64MB SecureDigital	(D4117)	\$198
128MB SecureDigital new	(D5918)	\$396

Memory Card Adapters



SDMCA PC Card 4-in-1 Card Adapter (D4139) **\$119**

CFCA PC Card CompactFlash Card Adapter (C2422) **\$22**

CFCAP PC Card Compact Flash+ Card Adapter (D4147) **\$33**

SMCA PC Card SmartMedia Card Adapter (B2918) **\$99**

USB Digital Memory Readers

Exchange data between your PC, laptop, MP3 player or Digital Camera.



UISDMC1 USB 4-in-1 Socket + Compact Flash Card Drive (D4155) **\$164**

UISC3 USB SmartMedia and CompactFlash Card Drive (B2926) **\$85**

4-in-1 Readers
4-in-1 readers have a unique single socket which will take Secure Digital Card, MultiMediaCard, Memory Stick and SmartMedia.

Verbatim

Slim-line PC Card CD-ROM Drive

"Add a CD-ROM to your Laptop!"



This 24x CD-ROM drive will connect to any PC Card enabled PC or Notebook & is ideal for mobile computing.

(97766) **\$299**

DVD8X

• PC Card Portable 8x DVD-ROM drive

(B2931) **\$605**

CDRW4X

• PC Card Portable 4x4x20 CD-RW drive

(C7205) **\$487**

PCI Cards

Add super fast serial and parallel port interfaces to any PCI equipped PC.

(90688)

Priced from \$77



FireWire Digital Memory Readers

POCFFW FireWire CompactFlash Card Drive	(D4161)	\$109
POSFW FireWire SmartMedia Card Drive	(D4162)	\$138
MIMKFW FireWire Memory Stick Card Drive	(D4163)	\$148

Verbatim

RENTSMART

*The figures quoted are based on a per week basis over 3 years. T.A.P, Terms & Conditions apply.

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Web Direct
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Copying and Connectivity

Verbatim

CopySmart CD Copier

Copy discs with a single button press. Standalone - no PC required.



BONUS FREE* CD's

*(refer to side panel for redemption details)

50 FREE* DISCS

100 FREE* DISCS

8x4x32 (B2904) **\$899**

Rent* \$9.85/wk

16x10x40 (B9843) **\$1,375**

Rent* \$15.07/wk

* ON REDEMPTION:

Bonus CD's sent after registration of goods: registration form in boxes. Only available while stocks last.

FireWire for Notebook



Adds two FireWire ports to your Notebook with a Cardbus Type II interface.

- Plug and Play!
- Free video capture and editing software.

FireWire to CardBus controller (2 port)

(B9849)

\$118

KOUWELL IK


PCI Firewire Cards

Connect your digital video camera to your PC. Download and edit your own movies.



PCI Firewire Card - 4 ports	(90689)	\$109
PCI Firewire Card - 6 ports	(A5161)	\$143
PCI Firewire Repeater Card - 5 port	(A5162)	\$118
PCI Firewire Repeater - 6 port	(A5163)	\$154
PCI Firewire Repeater - 10 port	(A5164)	\$205
6 pin to 6 pin Firewire cable	(B2905)	\$14

KOUWELL IK

USB Hubs & Cards



USB Hub - 6 ports	(79702)	\$89
PCI USB Card - 2 ports	(84801)	\$44
USB Network Cable	(B2908)	\$75
USB to Printer Cable	(84803)	\$33
Internal 3.5" USB Hub - 4 ports	(B2909)	\$65
USB to 10/100 Ethernet Adapter	(B2912)	\$115

KOUWELL IK

PCI SCSI Cards



The easy way to expand your PC. Connect multiple SCSI devices to one card.

PCI Bus, Ultra-SCSI	(90681)	\$97
PCI Bus, Ultra-Wide	(90683)	\$175
PCI Bus, 2 channel Ultra-Wide	(90684)	\$340
PCI Bus, Ultra2-Wide	(90685)	\$245
PCI Bus, Ultra 160	(B9847)	\$480

KOUWELL IK

IDE Acceleration & Expansion Card



Speed up your PC's new hard disk drives with this PCI plug in Ultra DMA 100 card. Supports transfer speeds of up to 100MB/s with new ATA100 drives, and includes the ability to run up to 4 extra IDE or ATAPI drives on your system.



PCI IDE Ultra DMA 100 Card	(90688)	\$77
PCI IDE Ultra DMA 100 RAID Card	(B8410)	\$110

USB 2.0



Introducing USB 2.0. Faster than FireWire. Compatible with existing USB peripherals.

5 port Card (B9850)

\$139

4 port Hub (B9851)

\$139

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Sales: 1300 13 9999

Fax: 1300 13 6666

Web: www.ht.com.au

Email: sales@ht.com.au



Delivery Australia-Wide

FEB 29

CD / DVD Production Equipment

PRIMERA
TECHNOLOGY, INC.

Signature IV CD Printer



- 1200x1200 dpi res
- Fast: 27 seconds per disc.

(B9917) **\$3,298**

Rent* \$32.34/wk

See page 31
for Inkjet Printable Discs

PRIMERA
TECHNOLOGY, INC.

Signature Pro CD Printer



- 2400dpi
- Superfast
- Dual Ink Cartridges

(C3681) **\$4,069**

Rent* \$38.02/wk

See page 31
for Inkjet Printable Discs

PRIMERA
TECHNOLOGY, INC.

Inscripta Printer



- 610 x 305 dpi Thermal
- Durable finish

(B2932) **\$5,999**

Rent* \$54.68/wk

See page 31
for Thermal Printable Discs

PRIMERA
TECHNOLOGY, INC.

Composer



**NOW
24x**

Premastering software Included- optional
inkjet printer shown

1 x CD-R

Composer CD-R 24x, 50 disc

(D5895) **\$5,435** Rent* \$49.54/wk

1 x DVD-R

Composer DVD-R 2x/8x, 50 disc

(C5561) **\$8,359** Rent* \$72.53/wk

2 x CD-R

ComposerPro CD-R 24x, 100 disc

(D5896) **\$8,375** Rent* \$72.66/wk

2 x DVD-R

ComposerPro DVD-R 2x/8x, 100 disc

(D4190) **\$13,095** Rent* \$107.27/wk

Add a printer from those shown at left and an
adapter plate to upgrade your Composer/
ComposerPro to a full burn and print solution.

Printer Stand for Inscripta
Printer



(B8878) **\$99**

Printer Stand for
Signature III/IV/Pro
Printer (C1748) **\$99**

Buzzsaw Network Burning Software

This unique software allows your Composer/
ComposerPro to be networked in an office so
that anyone can start up and monitor
recording and printing jobs.

Rent* \$22.54/wk (D0538) **\$2,299**



Desktop Series

R I M A G E™

**NEW
RANGE**

Premastering network
software included.
Software developers
kit also included.



Printer included
as standard

1 x CD-R

Desktop 800 24x, 60 Disc

(D4141) **\$10,050** Rent* \$85.81/wk

1 x DVD-R

Desktop 800 2x/8x, 60 Disc

(D4148) **\$11,854** Rent* \$97.11/wk

2 x CD-R

Desktop 1000 24x, 50 disc

(D4143) **\$17,110** Rent* \$138.19/wk

Desktop 4000 24x, 50 disc

(optional 110 disc)

(D4144) **\$20,820** Rent* \$168.16/wk

2 x DVD-R

Desktop 1000 2x/8x, 50 disc

(D4151) **\$20,409** Rent* \$164.84/wk

Desktop 4000 2x/8x, 50 disc

(optional 110 disc)

(D4152) **\$23,707** Rent* \$191.47/wk

4 x CD-R

Desktop 4000 24x, 50 disc

(D4145) **\$22,264** Rent* \$179.82/wk

4 x DVD-R

Desktop 4000 2x/8x, 50 disc

(D4154) **\$28,036** Rent* \$226.44/wk

CD-R/CD-RW & DVD-R/DVD-RW: Storage for life

DataLifePlus CD-R - 24x



super
AZO

80 Min.
700MB
1x - 24x
10 Pack

(D4114) **\$14**

80 Min.
1x - 24x Singles
(D5933) **\$2**

DataLifePlus CD-R Audio



metal
AZO

80 Min.
10 pack

(C7889) **\$20**

80 Min.
Singles
(D0011) **\$3**

Verbatim Digital Media

CompactFlash



16MB (C8984) **\$45**
32MB (C8986) **\$62**
64MB (C8987) **\$105**
128MB (D0020) **\$180**
256MB (D9232) **\$449**

SmartMedia



16MB (C8989) **\$33**
32MB (C8990) **\$55**
64MB (C8991) **\$115**
128MB (D9233) **\$265**

MultiMedia Cards



16MB (C8994) **\$69**
32MB (C8995) **\$95**
64MB (C8996) **\$177**

DataLife Neons

Neon Coloured
floppy disks
for easy
filing.



(C9753) **\$9**

Pocket Colours 8cm CD-R



NEW

21min 185MB
1x - 16x, 5 Pack
(D9192) **\$10**

21min 185MB
1x - 16x, 10 Pack
(C9459) **\$18**

DataLifePlus Colours CD-R



super
AZO

80 Min. 700MB 1x - 24x
coloured CD-R's
in a 25 pack
(B1355) **\$34**

80 Min. 700MB 1x - 24x
coloured CD-R's
in a 10 pack
(D9227) **\$15**

Printable CD-R Media In Spindles of 50

Inkjet Printable 74 min 12x

(93471) **\$65**

White Thermal Printable
74 min 12x

(D5963) **\$68**

Silver Thermal Printable
80 min 16x

(D0562) **\$65**

DataLife CD-R

- Third generation Phthalocyanine Recording Dye Technology
- Scratch Resistant Surface



80 Minute DataLife SlimCase
10 pack 16x

(C7091) **\$13**

80 Minute DataLife Spindle
25 pack 16x

(C7093) **\$35**

DataLifePlus DVD Media



4.7 GB DVD-R for
General Data Singles

(C8840) **\$19**

4.7 GB DVD-RW

(C8841) **\$26**

4.7 GB DVD+RW

(D9166) **\$26**

NEW

DataLifePlus CD-RW

700MB CD Rewritable 2x-4x
5 Pack Colours

(D9230) **\$13**



NEW

2x - 4x Singles

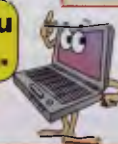
(77492) **\$4**

4x - 10x Singles

(B2658) **\$5**

Verbatim DataLifePlus CD's represent the latest in technology. Featuring a proprietary blue Metal-Azo dye which has the best resistance to sunlight, silver reflective layer for optimum read and write performance and multispeed recording.

Did you
know...



Smart Storage Solutions

Zip 100MB
disk

(23772)

\$25

10-pack:

(21889)

\$189

Zip drive
carry case

(31823)

\$49

Zip disk

labels

20-pack

(48059)

\$5

Jaz 2GB

External

Drive

(A4022)

\$785

Jaz 2GB disk

(61652)

\$205

Jaz 2GB 3-
pack

(57271)

\$615

Jaz 1GB disk

(24218)

\$199

Jaz 1GB 3-
pack

(32844)

\$589

Zip 100 USB Powered

An affordable total storage solution as easy to use, but far superior to, the floppy drive iomega's Zip® 100MB USB-Powered drive is affordable, reliable, easy to use and has a sleek, durable design powered through the USB cable for complete plug-and-play compatibility.



(D0587) **\$185**

Peerless™ 10GB Storage

The next generation in high-capacity removable storage. iomega's Peerless™ drive system offers 10GB and 20GB disks, interchangeable interfaces, and 15MB/sec transfer rates for stunning performance. Firewire® and USB 1.1 interfaces available.



USB 1.1 10GB

(C3525) **\$835**

Predator

iomega Predator 24x10x40CD-RW drive

The all new and exciting iomega CDRW drive. An external 24x10x40 CDRW with USB 2.0 capability offers you blazing speed performance in terms of write speeds including a BURNPROOF feature to eliminate wasted CDs. The drive has one of the most unique design with its sleek, slim and stylish architecture. Now included, the iomega Hotburn Software for effortless 2 step CD creation.



(D9194) **\$575**

iomega CD-RW

CD-RW Drive

USB 2.0 capability gives iomega's new external CD-RW drive amazing 16x10x40x performance with PCs that support the USB 2.0 standard. Also fully backward compatible with USB 1.1, providing near-universal connectivity with Mac and PC computers and 4x4x6x performance. Includes Buffer Under-run protection and NEW iomega HotBurn CD creation software.



(D4043) **\$518**

Host Powered 250 USB

NEW – Host-powered Zip® 250MB USB drive Now it's even easier to take your information with you. The Zip® 250 USB drive is now available with a USB cable that provides both data and power, so you don't need any external power source. Its easy to connect (just plug it in) and easy to launch (no rebooting)! This new drive is compatible with most major operating systems and all Zip 100MB and 250MB Zip disks.



(B6404) **\$365**

DON'T FORGET
to collect your
500 Bonus
Fly Buys
points when
you purchase
D0587, C3525,
D9194, D4043,
B6404
between
20/01/2002-
28/02/2002

FEB

32

Multimedia: DVD & Blank Media

Pioneer

DVD-A06SZ 16x SLOT LOADING DVD-ROM DRIVE UPGRADE KIT



DVR-A06SZ
(D1015)

\$195

FEATURES

- 16x for DVD, 40x for CD
- Ultra DMA66
- Super quiet mechanism
- Vertical or horizontal mounting

INCLUDES:

- Power DVD software decoder
- Mounting screws & audio cable
- Pioneer DVD-ROM Drive (2 year warranty)

**Includes: 5 x DVD
movie rental vouchers
from Blockbuster Video**
(included inside product box -
see voucher for conditions
and expiry dates)



Web Direct

See Web Direct Link
(at top of page) for more products and latest info!

Pioneer DVD

DVR-A03 DVD-R/RW DRIVE

One drive...

One complete recording solution!

FEATURES

Writes: DVD-R (2x) DVD-RW (1x)
CD-R (8x) CD-RW (4x)

Reads: DVD-ROM, DVD-Video, DVD-R,
DVD-RW, CD-ROM, CD-R, CD-RW,
CD-TEXT, Photo CD, Audio CD

INCLUDES

- SONIC MyDVD Authoring Software
- PrimoDVD Writing Software by Veritas
- STAEDTLER LUMOCOLOR pen
- Power DVD software decoder
- 2 x DVD-R Media
- 5 x CD-R Media
- 1 x DVD-RW
- 5 x Blockbuster Video DVD movie rental vouchers

DVR-A03 (C3847) **\$1,295**



Pioneer

DVR-A03 PRO PACK

This is designed for the video enthusiast and contains all the same goodies as the DVR-A03 plus ReelDVD Professional Authoring Software (Version 2.5) by Sonic Solutions and "DVD Production and Authoring" book by Ralph La Barge (retail value over \$2,000 for these additions).

DVR-A03 PRO (D4247) **\$2,295**

Winner
apc
Technology Awards
2001

DVR-A03
WINNER OF
APC
MAGAZINE'S
'BEST
HARDWARE'
AWARD

Ask
About...



- ☐ Extend to a total of 3 Years Return to Base
- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

Pioneer

DVD-R MEDIA

- Jewel Case • Memory-capacity of 4.7GB • Suitable for DVD Video & Data backup • Playable on both DVD-Video players & DVD-ROM drives • Commercial and Home DVD-Video production • Large sized data archive storage (not for use with Pioneer DVR-S201 authoring drive)



DVS-R47A (DVD-R) (D9299) **\$19**
DVS-RP470SDF • White printable version (C2322) **\$22**

Pioneer

DVD-RW MEDIA

- Rewritable DVD media • Jewel case • Memory capacity of 4.7GB: Suitable for DVD video & data (not for use with Pioneer DVR-S201 authoring drive)



DVS-RW47B (DVD-RW) (D9300) **\$28**



Kodak

Prices are subject to change. Check here for latest prices & products!!

Web
Direct

www.ht.com.au/cat/kodak

Share Moments. Share Life™

Kodak Picture Cards

32MB Picture
Card
(62677)
\$75

64MB Picture
Card
(82249)
\$99

96MB Picture
Card
(88332)
\$175

Kodak

Good quality
camera's need
good quality
papers

Kodak
Picture Paper

ultra glossy 15 sheets
(51858)
\$14

Kodak
Picture Paper

Satin 15 sheets
(D3251)
\$14

Kodak
Picture Paper

Semi gloss 75 sheets
(D3258)
\$35

Kodak
Picture Paper

SEB

34

Kodak DX3900

The high-performance camera.

Set your own color mode, ISO, and lighting exposure settings to get your perfect picture. Thanks to 3.1MP resolution, you'll get excellent picture quality on prints up to 11" x 14". The DX3900 comes with 6X zoom (2X optical and 3X digital) and a COMPACTFLASH Card to keep you shooting longer. And with the DX3900's optional telephoto, wide-angle, and close-up lens attachments, you can extend your creativity.

- CCD resolution
- image resolution 3.1 megapixel 2160x1440 pixels
- burst maximum 8 pictures at 0.8MP resolution
- lens 35 mm - 70 mm, (35 mm equiv.)
- auto focus
- zoom 6x (2x optical, 3x digital)



(C7689)

\$1,125

Kodak DX3700

Great pictures made easy.

EasyShare DX3700 Digital Camera. It has 3.1 MP resolution for excellent picture quality up to 11" x 14". Getting closer to the fun is easy with the 3x digital zoom.

- 3.1MP resolution
- 3x digital zoom!
- 8MB internal memory
- Compatible with the Kodak EasyShareCamera Dock



(D0792) **\$779**

Kodak DX3215

Making digital easy— one picture at a time.

Great pictures made easy. Want to get into digital with ease? You've found your camera. Introducing the KODAK EasyShare DX3215. This camera gets you started with 1.3MP resolution for great prints up to 5" x 7". A 4X zoom (2X optical and 2X digital) lets you get closer to the fun. It's the perfect camera to get you into digital picture-taking. • 1.3MP resolution • One-touch picture transfer • 8MB internal memory



(C9539) **\$458**

Kodak DC5000

Rugged, durable,

and easy-to-use, the KODAK DC5000 will help you get the job done.

The DC5000's weatherproof body will hold up under the toughest circumstances. The 2X optical (30 - 60 mm) and 3X digital zoom let you choose wide angle or telephoto to take pictures in a variety of open spaces.

A practical, intuitive package that is easy to use but tough on the job



(A3540) **\$999**

Kodak DX3500

Simple-to-use

KODAK DX3500 Digital Camera. Get crisp, vibrant prints thanks to its 2.2MP resolution and 3X digital zoom. The DX3500 comes equipped with a COMPACTFLASH Card expansion slot so you can boost its memory capacity.

- KODAK Picture Software lets you instantly view, edit, e-mail, and print your pictures.
- Get great-looking prints with 2.2MP resolution and 3X digital zoom.



(C9587) **\$575**

Kodak DX3600

Easy share dock system

KODAK DX3600 Digital Camera with Kodak easy share dock system. Get crisp, vibrant prints up to 8" x 10" thanks to its 2.2MP resolution and 3X digital zoom. Start shooting right away with 8MB of internal memory. The DX3600 comes equipped with a COMPACTFLASH Card expansion slot so you can boost your camera's memory capacity. Recording time only limited by the size of the compact flash being used.



(C5964) **\$779**

Kodak MC3 portable media device

All the multimedia you've ever wanted in one little player

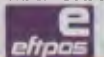
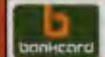
Click into digital video mode to shoot funny movies or snap a few digital pictures. Download your favorite MP3s and take them with you, listening via ear buds or through your boom box or car stereo. It's one of the only MP3 players with a reflective color preview screen, so you can use it even in bright sunlight. Transferring to your PC is a breeze. It even lets you combine your pictures, music and video into unique music videos.



(B9818) **\$385**

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ClickSmart™ 510 **NEW**

Shoot it.

Save video or megapixel photos on the included 8MB memory card. Then download them all effortlessly with the new QuickSync(TM) system.

Share it.

Easily send photos and video via e-mail or post them on your web site. Includes built-in flash plus video and photo editing software.

Show it.

Make live video calls with the built-in microphone or broadcast live over the Internet. ClickSmart 510 has a USB connector for easy installation and comes with a two-year warranty.

(D5771)

\$335

QuickCam® Pro 3000

With its CCD sensor, QuickCam Pro 3000 takes pictures and videos with true 640x480 resolution. Use its built-in microphone to make live video calls over the Internet and send pictures and videos with your emails. QuickCam software lets you easily setup a digital surveillance camera and broadcast live video and audio over the web. Add professional titles, fades and wipes to your videos with the included MGI software. Connection via USB. 2-Year warranty.



(B0805)

\$209

MouseMan® Dual Optical

The technologically advanced mouse. Two 800 dpi optical sensors deliver intelligent tracking on a variety of surfaces. No ball means no sticking and no hassle. Five-year warranty

(D4013)

\$79



Cordless Freedom™ Optical

The ultimate cordless keyboard and optical mouse. This striking combination is cordless for less clutter, more style and more freedom.

Seamlessly access and navigate the Internet at the touch of a button or the scroll of the iNav wheel. Intuitive multimedia controls are at your fingertips and allow you to control MP3s, DVDs and CDs from your keyboard. Every keystroke is made easy with Zero Degree Tilt, offering one of the slimmest keyframes available. Logitech's patented digital cordless radio technology is encrypted to secure your privacy. The included Cordless MouseMan® Optical will perform perfectly for years to come. 5-year warranty.



(C6106)

\$199

Cordless Freedom

Enjoy complete control and reliable performance, without cords that catch or tangle. Access the Internet, open e-mail, search or launch applications with one touch of a key. Includes Logitech Cordless Mouse. 3-year warranty.

(D3991)

\$129



Cordless MouseMan Optical (C1186)
\$129



MouseMan Traveller (D4014)
\$114



Optical Mouse (B9948)
\$49



TrackMan Live! (77753)
\$285



Internet Navigator (D0560)
\$69



Deluxe Access 104 (B0819)
\$38



High-breed Monitors

Samsung 151s LCD monitor 15 inch monitor



Specifications:

- 15" viewable screen resolution XGA(1024 x 768)
- Colors 16.2M
- H.Frequency 30 ~ 61 kHz
- V.Frequency 50 ~ 75 Hz
- Contrast 330:1
- Luminance 250cd/m2
- Viewing Angle 140°/120°
- Input connectors 15pin D-Sub
- Sync Type Composite H/V, SOG
- Power 30W(Max.)

Optional Pivot to landscape*

(D3614) **\$849**

*the head of the monitor can actually turn clockwise so you can get a visual landscape picture.

Samsung 151BM 15" Multimedia LCD monitor 15 inch monitor



Specifications:

- 15" Viewable LCD Monitor
- 1024 x 768 max resolution @ 76Hz
- 140°/120° viewing angle.
- Fast and accurate auto adjustment
- NUTEK Certified
- Three colour choices: silver/black/ivory
- Pivot technology
- Built in Multimedia Speakers
- Optional USB-Hub available
- Weight 4.1 kg

Optional Pivot to landscape*

(D6237) **\$1,098**

SyncMaster 753DF 17 inch monitor



SOHO Series Features:

Flatter images are easier on the eyes and slimmer products save on space and make users comfortable in their working environment. That's real value. And that's also what makes Samsung the World's Number 1 Monitor manufacturer.

Specifications:

- 17"(16" Viewable)
- 0.20mm dot pitch (horizontal)
- 1280 x 1024 @ 66Hz Maximum Resolution
- DynaFlat - Infinitely Flat Tube
- Smart III surface treatment (anti-static & anti-glare)
- On Screen Digital Display
- Plug & Play Compatibility
- MPR-II/NUTEK certified

(C1283) **\$519**

SyncMaster 955df 19 inch monitor

Samsung monitors come in 3 colours (ivory, silver and black)



Graphix Pro Series Features:

Samsung continues to spearhead the monitor market in meeting customer's needs, built on its reputation as a leading provider of the highest quality monitors utilising the latest technologies to develop products to meet customers demands. Samsung's commitment to customer satisfaction and leadership in the monitor industry has been proven by the value that Samsung monitors provide its customers.

Specifications:

- Model No.: 955df 19" (18" Viewable)
- 0.20mm dot pitch (Horizontal)
- 1600 x 1200 @ 68Hz Maximum Resolution
- DYNA Flat - Infinitely Flat Tube
- Smart III Surface Treatment (Anti-Static & Anti-Glare)
- Onscreen Digital Display
- MPR-II/NUTEK Certified
- Plug & Play Capability

(C3975) **\$825**

SyncMaster 171s 17 inch monitor



The SyncMaster171S is the ideal display for all business and professional applications. Its new slim design refined with Samsung's digital technology allows the product to fit all working environments. Two different color variations are available for you to choose: Ivory and Silver that are TCO99 compliant. Optional Pivot stand enables a rotating feature by which you can see one full page of an A4 document without scrolling. The SyncMaster171S is power efficient as well. It consumes less than 1 Watt of power in power off mode, and its built-in power adaptor lets you free from a dangling power brick, leaving your desk clean and simple.

(D9313) **\$Call**Ask
About...

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- ☐ Extend to a total of 5 Years Return to Base
- ☐ Upgrade Return to Base of Warranty Extension to On-Site

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Value for money & leading technology

the prize catch



CM615
17" General Purpose CRT Monitor
1024x768@85Hz
0.23mm Horizontal Dot Pitch
(97802) **\$419**



CM715
19" General Purpose CRT Monitor
1600x1200@75Hz - 0.22mm Horizontal Dot Pitch
(97803) **\$749**



CML153XW
15" TFT LCD Monitor
with Speakers - XGA
1024 x 768 @ 75Hz
(D5744) **\$995**

NEW

CML155XW

15" TFT LCD Monitor
1024x768 @ 75Hz
500:1 High Contrast
Video Inputs
Mic + Spkrs
(D7708) **\$1,179**

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CM721
19" Flat CRT Monitor
1600x1200@75Hz
0.20mm Horizontal Dot Pitch
(C8839) **\$859**



CMP205SX
25" Plasma Display
- SXGA (1280x1024)
(88323) **\$10,409**



CML181SXW
18" TFT LCD Monitor
with Speakers - SXGA
1280x1024@85Hz
(D7709) **\$3,219**



CML170SXW
17" TFT LCD Monitor
with Speakers - SXGA
1280x1024@85Hz
(B3051) **\$1,599**



CP-S225W HOME THEATRE LCD PROJECTOR

- SVGA 1100 ANSI Lumen
- 32dB Whisper Mode (800 ANSI)
- Light Weight (only 2.4kg)
- Component Input (for DVD and other high quality video sources)
- Short Throw Distance - ensures large images even in limited spaces

(D9132) **\$Call**



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NEC MultiSync LCD1550V

15" LCD Monitor
1024 x 768

(D9139) **\$989**

NEW
SUPER SLIM BEZEL!



NEC

V530

15" CRT Monitor
1280 x 1024
(89125)

\$290

V730

17" CRT Monitor
1280 x 1024
(B7522)

\$390

V930

19" CRT Monitor
1600 x 1200
(C9739)

\$645

NATURAL FLAT CRT MONITOR RANGE



FE700+

17" CRT Monitor
1280 x 1024 @ 66Hz
Flat Aperture Grille

(D1191)

\$575



FE750+

17" CRT Monitor
1600 x 1224 @ 74Hz
Flat Aperture Grille

(D1192)

\$630



FE950+

19" CRT Monitor
1792 x 1344 @ 68Hz
Flat Aperture Grille

(D1193)

\$1,087



FP1355

22" CRT Monitor
2048 x 1536 @ 75Hz
Flat Aperture Grille

(D1194)

\$1,895

NEC HAS A WIDE RANGE OF LCD & CRT MONITORS, DATA PROJECTORS AND PLASMA DISPLAYS



VT45

SVGA; 800 x 600
1000 ANSI Lumens
Horizontal & Vertical Lens Shift
Weighs only 2.5kg

(D1195) **\$3,740**



LCD1850x

18" LCD Monitor
Ambix,
1280x1024 Max.
Slim Bezel

Super Thin!

(D1199) **\$3,809**



42MP3 PlasmaSync*

42" Plasma Multimedia Display
16:9 Aspect Ratio
160 Degree Viewing Angle

HDTV COMPATIBLE

(D9354) **\$11,700**

*Speakers and stand not included.



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The Power to Create

PRINTER

EPSON STYLUS C20UX

BONUS USB CABLE (in box)
while stocks last!



The Easy-To-Use Home Colour Printer that gives photo quality printing, and delivers best-in-class for overall cost effectiveness. **KEY FEATURES** • Up to 720 x 720 dpi photo quality printing • Fast, easy set-up and operation • USB equipped for simple plug and play printing • Up to 6.5 ppm black text printing

(C5572) **\$119**

PRINTER

EPSON STYLUS C40SX/C40UX



The Easy to use Quality Home Colour Printer with up to 1440 dpi. **KEY FEATURES** • Up to 1440 x 720 dpi photo Quality printing. • Fast, easy set-up and operation of both models. • Choice of USB or Parallel models, simple plug and play printing. • 8ppm black text speed and 3.9 ppm colour text speed.

C40SX (Parallel) (C5574) **\$169**

C40UX (USB) (C5573) **\$169**

LASER PRINTER



EPSON AL-C2000

EPSON technologies, including AcuLaser Multiple-Screen Printing, Colour RIT and Colour Stabilizing. In addition, AcuLaser Colour Halftoning provides print resolution equivalent to 2,400 dpi (defined print resolution: 600dpi). Text is extremely sharp and photos have excellent contrast.

(A7365) **\$4,279**

PRINTER



EPSON STYLUS PHOTO810

• On-demand Inkjet (piezoelectric) • 48 x 6 nozzles • Black text (memo) A4 Approx. 12ppm (Economy) • full page colour A4 Approx. 1.4ppm (Normal) • USB compatible • Colour: Cyan, Magenta, Yellow, Light Cyan, Light Magenta • DRIVERS Microsoft® Windows® 95/98/2000/Me/NT® 4.0.

(C9372) **\$369**

PRINTER



EPSON STYLUS C60

• 2880 x 720 dpi resolution • Fast 12ppm* for both Black and Colour Text Memo (*at economy mode) • Precise-Super fine detailed printing with up to 2880 dpi, MicroPiezo Print Head and 4pl Variable Sized Droplet Technology • Four-colour ink system.

(D0042) **\$269**

PRINTER



EPSON STYLUS C80

• Up to 20 ppm* for black text • Constant monitoring of ink consumption with the Intellidrive™ ink system in each of the four ink cartridges • Pigment inks for prints that are fade-, water- and smudge-resistant • Super fine printing with up to 2880 dpi.

(D1665) **\$589**

PRINTER



affordable
6-colour
printer

EPSON STYLUS PHOTO895

Outstanding Photographic 6-Colour Quality with Personal Digital Photo Lab Function. • Up to 2880 x 720 dpi photo • Quality printing resolution • PRINT Image Matching™ enabled • USB interface for plug-and-play • Over 20 years lightfastness***

(C9632) **\$719**

PRINTER



EPSON STYLUS COLOR1160

• Printing method - On-demand inkjet (piezoelectric) • Nozzle configuration - 144 nozzles (Black), 48 x 3 nozzles (Cyan, Magenta, Yellow) • Print direction - Bi-directional with logic seeking • Resolution - 1440 x 720 dpi • A3 Compatible.

(87723) **\$609**

SCANNER

EPSON PERFECTION 1250

This new EPSON scanner features resolution and scanning technologies which sets it apart from other scanners in its price class. • 1200 x 2400 dpi optical resolution • 48-bit colour depth (internal) • USB interface for plug-and-play

(C9439) **\$219**

SCANNER

EPSON PERFECTION 1650

Perfection 1650 series offers full auto scanning mode for documents and photos, and the Perfection 1650 Photo, in addition, feature auto batch scanning mode for film and slides, using its film adapter. Scanning • 1600 x 3200 dpi optical resolution • USB interface for plug-and-play

(C9387) **\$358**

SCANNER

EPSON EXPRESSION 1640XL

The Expression 1640XL A3+ scanner features EPSON's most advanced scanning technologies providing high speed, maximum detail and superior sharpness and clarity.

(B1330) **\$5,639**

MONO LASER PRINTER

EPSON EPL 5900

NEW • 12ppm • True 1200 DPI Resolution • 200MHz RISC Processor • USB & IEEE1284 Parallel Interface • 10/ 100 Base T/UTX Network Print Server • 8 MB Memory - Expandable up to 136 MB • Windows & Mac • Standard 150 Sheet Multi Purpose Tray & Optional 500-Sheet Lower Paper Cassette Unit

(D8158) **\$799^{RRP}**

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hp designjet 50ps, 20ps & 10ps

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Paper & Inks available for the designjet printer range


Pre-press
proofing
solution

RES: up to 2400x1200dpi

SPEED: A3+ print outs can be generated at a super fast speed of up to 4 mpp

INK: 6-ink modular cartridge systems with four 69ml (cmk) and two 28ml cartridges that help minimise printer down time and reduce cost per print

RIP: stand alone or server based RIP optimises your system's resources

PAPER: up to A3

	Rent* /wk	Part #	
hp designjet 50ps	\$60.69	(C8933)	\$6,995
Professional solution A3+ graphics colour thermal inkjetprinter			
hp designjet 20ps	\$37.22	(C8932)	\$3,795
Work group solution A3+ graphics colour thermal inkjetprinter			
hp designjet 10ps	\$25.45	(C8931)	\$2,595
Personal Solution A3+ graphics colour thermal inkjetprinter			

Ask
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- ☐ Upgrade Return to Base of Warranty Extension to On-Site

hp designjet 800

Professional graphics printer
wide photo quality ads and graphics


hp 800PS 42"

hp 800PS 24"

RES: 2400x1200dpi

SPEED: Line drawing prints times as short as 60 seconds (D size 24-36Inches)
Colour Image Fast: 7.9m²/hour Normal: 3.34m²/hour Best: 1.95m²/hour

MEDIA: Coated & glossy paper, technical media. Sheet & roll feed, auto cutter
SIZES: Sheet: 211mm - 1897mm , Roll: 24" (w) x 45.7m (l)

I/FACE: Parallel, USB

SIZE: Printer in 2 sizes 42 or 24 Inches wide

	Rent* /wk	Part #	
hp designjet 800 24"	\$83.25	(B8514)	\$9,750
hp designjet 800PS 24"	\$114.65	(B8518)	\$13,995
hp designjet 800 42"	\$94.17	(B8513)	\$11,495
hp designjet 800PS 42"	\$133.12	(B8519)	\$16,250

hp designjet 5000

Professional graphics printer photo
quality unmatched by any other printer

Come in & see one on display @ our Nth Ryde Location!



hp 5000PS 60"

hp 5000PS 42"

RES: 1200x600dpi on glossy media (6 colours:CMYKcm)

SPEED: max: 46.4 sq m²/hr, (42" dye/uv)
max: 52.9 sq m²/hr, (60-inch dye/uv)

MEDIA: Coated & glossy paper, backlit, opaque, vinyl, canvas...
SIZES: Sheet: 211mm- 914mm (w) x 559- 1600mm (l);
Roll: 24/36/42/54/60" (w), up to 91.4m (l)

I/FACE: Parallel, hp JetDirect 610N 10/100 Base TX Print Server

SIZE: Printer in 2 sizes 42 or 60 Inches wide

	Rent* /wk	Part #	
hp designjet 5000 42"	\$159.88	(B6514)	\$19,795
hp designjet 5000PS 42"	\$209.15	(B9792)	\$25,895
hp designjet 5000 60"	\$255.22	(B6515)	\$31,599
hp designjet 5000PS 60"	\$Call	(B9791)	\$38,580

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hp LaserJet printers

hp LaserJet 1000 Series

Designed for personal printing in entrepreneurial business, home business and telecommuters who challenged by multitude of printing needs, the hp LaserJet 1000 printer is a simple, low-cost, reliable laser printer for fundamental printing, delivering professional looking business documents every time.



- 10 ppm • hp exclusive instant-on fuser eliminates warm-up time; first page out in 15 seconds • USB port • 48 MHz RISC processor • 7,000 pages per-month duty cycle • 1 MB RAM memory, 32KB ROM memory.

hp LaserJet 1000 USB (C9361) **\$599**

hp LaserJet 1200 Series

hp LaserJet 1200 (base unit) (B9799) **\$785**
hp LaserJet 1200n-16MB (B9958) **\$1,295**

- 14 ppm A4 (best-in-class) and first page out in less than 10 seconds
- increased memory of 8MB of RAM (upgradable to 72 MB)
- protected 250-sheet input tray and 10-sheet priority feed tray
- improved 10,000 pages monthly duty cycle
- instant-on-fuser eliminates warm up time.



hp LaserJet 1220 (B9968) **\$925**

You can now enjoy the comfort of printing, colour scanning and copying from one machine with the copier/scanner attachment for your hp LaserJet 1200. Beside enjoying all the best-in-class printing capabilities of the hp LaserJet 1200, you can now take control of your document management with the added benefit of colour scanning and copying.

hp LaserJet 4550 Series



hp colour LaserJet 4550 A4 16PPM 64Mb (B2381)

\$3,825

hp colour LaserJet 4550N A4 16PPM 64Mb 10/100 (B2382)

\$4,425

hp LaserJet 2200 Series

- Improved productivity with faster printing at 18 ppm A4 • best printing resolution of true 1200 x 1200dpi at full speed • quicker return to application with 133 MHz processor • first page out in 15 seconds with instant on-fuser • print large and complex documents quickly and easily with 8 MB of standard memory (16 MB memory on hp LaserJet 2200dn: - expandable up to 48 MB 2200D/DN: memory expansion up to 72MB
- increased duty cycle to 40,000/month.
- LJ2200 model (no duplexer built in for double sided printing)



hp LaserJet 2200d (base unit) (B9956) **\$1,548**

hp LaserJet 2200dn (B9957) **\$2,045**

hp LaserJet 2200dtn (B9898) **\$2,585**

hp LaserJet 4100 Printer

- Super fast printing at 24ppm A4 print
- 250MHz processor ensures quicker return to application • complex documents print faster with 16MB/32MB memory • 12 second first page out • HP Pro-Res & FastRes 1200 dpi print quality at full speed • dynamic RIP-once for faster processing of multiple original prints • duty cycle of 150,000 pages/month



hp LaserJet 4100 (base unit) (B8399) **\$2,235**

hp LaserJet 4100n (B8400) **\$2,999**

hp LaserJet 4100tn (B8401) **\$3,459**

hp LaserJet 4100dtn (B8402) **\$3,990**

hp LaserJet 3200 Series

Printer, Fax, Copier & Scanner! An ideal business solution for small office, home office (SOHO), small/medium business and top level executives, the hp LaserJet 3200 series is four machines in one. Print, fax copy and scan from one machine and it only occupies 1.6 sq. ft. of your desk space!



hp LaserJet 3200 (C2332) **\$1,349**

hp LaserJet 3200M (C4456) **\$1,529**

hp LaserJet 8150 Series

The new HP LaserJet 8150 series is designed to grow with your business and its needs. It delivers high-volume, high-speed black and white prints and copies for small workgroups to large departments. • Fast printing at A4: 32 ppm; 32 MB RAM (expandable to 160 MB); 250MHz processor.



hp LaserJet 8150 (B1981) **\$4,378**

hp LaserJet 8150N (B1986) **\$5,098**

hp LaserJet 8150DN (B1982) **\$5,795**

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hp officejet V40

HOT NEW PRODUCT

All In One Scanner/Printer/Fax/Copier

- Full-featured printing, faxing, scanning and copying-all in color
- Convenient access to color faxing, copying and scanning from the front panel
- Enhanced printing and copying speeds and richer, sharper color on all four functions
- State-of-the-art performance and speed combined with time-saving features, user-friendly simplicity and a self-sufficient work space at a competitive price
- Reliable and durable -- backed by award-winning HP Customer Care



(D7688)

\$529

hp deskjet 845c

Step up to HP's photo-quality printer that gives you true-to-original colours brilliant

- crisp black text and photo-quality images
- up to 600 x 1200 dpi
- no swapping ink cartridges to print outstanding photo-quality colour
- ideal for work and other creative projects
- prints up to 8 ppm black and 5ppm colour
- USB connectivity



(D3921)

\$189

hp officejet K80

Ideal for:

Photographers needing photo-quality prints on any paper Small offices looking to share faxing, copying, and printing responsibilities Office managers looking for a compact, cost-effective office solution

Features

- colour speed 10 ppm colour
- black speed 12 ppm black • print technology HP Photo RET III technology (color layering technology) • scanner enhanced resolution 3600 dpi • scanner bit depth 36-bit A/D colour.



(B2081)

\$799

hp deskjet 930c

Compact Photo-Quality Colour InkJet Printer

• Alternative 2400x1200dpi mode on photo paper with HP PhotoREt 3 • Excellent results on all types of media in all modes • Prints up to 9ppm black and 7.5ppm colour.

Speed:

- black: 9/4.5/4ppm draft/normal/best
- colour: 7.5/2/1.2ppm draft/ normal/ best
- IFACE: USB, IEEE 1284 Parallel
- MEM: 4 MB
- PAPER: 76x127mm up to 216x356mm; 100 sheet input tray



(95761) GST INC

\$265

hp officejet G85

All Colour: Printer, Copier, Scanner & Fax

Prints at up to 12 ppm black, 10 ppm color using HP photoREt 3 Precision Technology, 2400 x 1200dpi colour, as well as flatbed 36-bit scanning, faster copying speeds, and upgradeable networking capability which allows one unit to be shared by several PCs. Each model combines a color printer, scanner, copier and a walk-up color fax.



(A0062)

\$1,239

hp deskjet 948c

HOT NEW PRODUCT

Explore your creativity and print photos easily with hp's premium photo-quality colour printer

- up to 2400 x 1200 dpi
- optional automatic two-sided printing
- space-saving fold-up paper tray
- best photo-quality with HP PhotoREt 3
- parallel and USB connectivity
- prints up to 12 ppm black and 10 ppm colour



(D3927)

\$299

hp scanjets & pocket pc

hp scanjet 4470c

High-quality scanner for the home with excellent features.

lighted
transparency
adapter.



- MS Win 95/98/2000/Me/NT4.0
- Includes USB cable, power cord and active transparency adaptor.
- res: 1200dpi optical, 1200 x 2400dpi hardware
- bit depth: 48-bit colour
- dimensions: (WxDxH) 305mm x 505mm x 72mm. 2.9kg
- 1 year hardware warranty & telephone support

(C8119) **\$369**

hp scanjet 5400c

High-performance 2400dpi scanner for professional use.



- MS Windows 95/98/2000/Me/NT4.0
- Includes USB & parallel cable and power cord.
- res: 2400dpi optical, 2400 x 2400dpi hardware, unlimited dpi enhanced.
- modes: Front panel scan, copy, e-mail, photo reprint or share-to-web Buttons from software.
- i/face: Dual - Parallel & USB.
- image technology: Charge coupled device (CCD)
- bit depth: 48-bit colour
- Warranty: 1yr hardware warranty & telephone support

(C7201) **\$419**

hp scanjet 7400c

market-leading image quality with uncompromising speed.



with
transparency
adapter

ScanJet 7400c Series office ready features make it easy to create impressive communications critical documents while saving time and resources.

- up to 2400 dpi
- true 48-bit color you'll get professional results in seconds.
- Windows® 98, 2000, Me, NT® 4 and Universal Serial Bus (USB).

(B9949) **\$979**

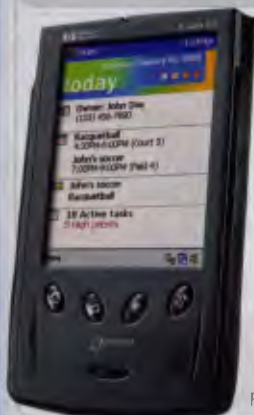
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- ☐ Upgrade Return to Base of Warranty Extension to On-Site

hp jornada 548

hp pocket PC in a sleek and stylish metal casing



- hp jornada 548 Pocket PC
- DISPLAY : 240 x 320 pixels LCD display, Rich colour CSTN backlit
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- S/W: Microsoft Windows for Pocket • Pen and touch interface (stylus included)
- Built-in Lithium-Ion rechargeable battery with 8 hours of battery life

hp jornada 548
32 MB Ram

(A0705) **\$749**
Rent* \$8.21/wk

hp jornada 565

one of the lightest pocket PC's on the market



- hp jornada 565 Pocket PC
- 206 MHz 32bit Intel(R) SA-1110
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- handwriting recognition software
- 14 Hour Continuous use removable Lithium - Polymer battery, and coin Battery back up.
- serial port, AC input jack, stereo head phone jack audio speaker and microphone, voice recorder

hp jornada 565
32 MB flash ROM

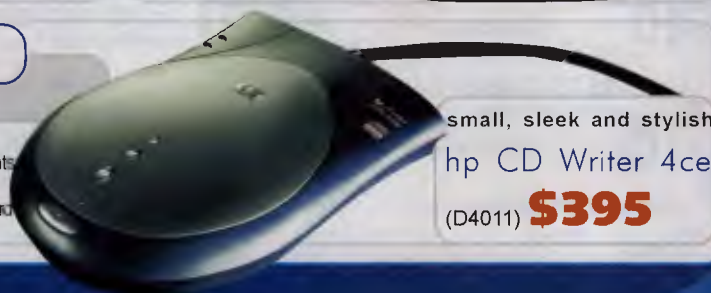
(D0845) **\$1,159**
Rent* \$12.70/wk

hp CD Writer 4ce

light weight laptop companion

technical specifications

- USB 1.1 • write 4x,rewrite 4x, read 6x • system requirements: Pentium II 300 Mhz or equivalent processor • 32 MB RAM (64 MB RAM for Windows 2000 Professional) • 50 MB free hard disk space • Windows 98,2000 professional and me.



small, sleek and stylish

hp CD Writer 4ce

(D4011) **\$395**

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For every 2 black HP InkJet Print cartridges* you buy between January 7, 2002 and March 31, 2002 you can claim your choice of \$25 vouchers from the following: • BP Petrol • Coles Supermarkets • Woolworths Supermarkets • HMV Music

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hp printer-scanner-copier 750 (\$649rrp)
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toner

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(21919) **\$69**

 **No 45 Black** Inkjet Cartridge
(22643) **\$69**

 **No 78 Tri-Colour** Inkjet print Cartridge
(86183) **\$79**

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(22331) **\$69**

 **No 23 Tri Colour** Inkjet print Cartridge
(78344) **\$79**

 **No 78 Tri Colour** Inkjet Cartridge
(97335) **\$149**

 **hp C4127x** LaserJet 4000 Series 10,000 Page Toner
(54731) **\$269**

 **hp C4096a** LaserJet 2100/2200 Series 5,000 Page Toner
(73192) **\$210**

 **hp 92298a** LaserJet Print Cartridge for LJ 4/M, 4+/M+, 5/N/M 6800 page Toner
(07995) **\$249**

 **hp 92298x** LaserJet Print Cartridge for LJ 4/M, 4+/M+, 5/5M/5N 8800 Page Toner
(42504) **\$209**

 **hp C3909a** LaserJet Print Cartridge for 5Si/Mopier/ 8000 15000 Page Toner
(26450) **\$359**

 **hp C4092a** LaserJet print Cartridge for HP LaserJet 1100, 3200
(70459) **\$130**

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(C6528) **\$58**

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(C6840) **\$15**

 **hp C6765a** Photo Paper - Glossy
(81524) **\$18**

 **hp C6065a** Iron On T-shirt Transfers A4 10 Sheets
(52818) **\$26**

 **hp Q1936a** Premium Injet A4 paper 200 Sheets
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(C4013)

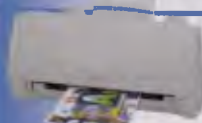
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PRINTERS



720x360dpi

(A1792) **\$85**



720x360dpi

(A3173) **\$112**

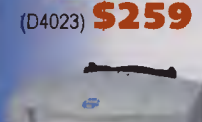


1440 X 720dpi

(D1745) **\$226**



(D4023) **\$259**



2400x1200dpi.

(B9836) **\$552**



600x600dpi.

(C3917) **\$498**

BJC-1000SP Bubble Jet Printer

- Outstanding operating economy.
- Vivid colours, even on plain paper.
- Exceptional photographic quality.
- Automatic image improvement.
- Banner printing and outstanding versatility.

BJC-2100SP Bubble Jet Printer

- New Super Economy mode cuts operating costs by up to 75%.
- High speed printing, up to 5 ppm black text and up to 2 ppm colour.
- Optional colour scanner cartridge 15-22
- Now with parallel port.

S400SP Bubble Jet Printer

- Super-high resolution, up to 1440 x 720 dpi.
- Brilliant colour inks.
- Operating economy.
- Extraordinary photo printing.
- Optional colour scanner cartridge IS-32.

S300 Colour Bubble Jet™ Printer

- Up to 11 black and white and 7.5 Colour pages per minute
- Up to 2400 x 1200dpi print resolution
- Separate black and tri-colour ink tanks
- USB Interface for Windows and Mac
- Compact footprint - ideal for the home office
- Colour lasts up to 25 years using Canon's Photo Paper Pro

S800 Bubble Jet Printer

- Photo Lab printing for the desktop.
- Printing resolutions up to 2400 x 1200 dpi.
- Separate ink tanks for each colour.
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LBP810 Printer

- High resolution 600 dpi printing for crisp text and graphics.
- 8 ppm engine speed.
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- Parallel & USB connections for wide compatibility.

SCANNERS



600x1200 dpi

(D4026) **\$139**



600 x 1200 dpi.

(D1005) **\$172**



1200x2400dpi.

(C7589) **\$279**



1200x2400dpi.

(B9935) **\$389**



2400x4800dpi.

(B9840) **\$759**

N640Pex Flatbed Scanner

- Optical resolution is 600 by 1200 dpi
- 42-bit input
- Only 4 cm tall
- Parallel interface
- Scans up to A4 size (Quite operation)
- Complete software package, LIDE Technology

New

N670U Flatbed Scanner

- One touch scan controls
- USB Interface
- 600 x 1200 dpi
- Scan, click and burn photos onto CD's.
- Advanced Z-Lid cover simplifies scanning of bulky items, books and magazines.

New

N1240U Flatbed Scanner

- Amazing 1200 x 2400dpi optical with selectable resolution up to 9600dpi.
- Stylish charcoal and aluminium finish.
- New Z-lid for scanning thick books etc.
- Software for Windows & Mac including OmniPage and PhotoShop Elements.

New

CanoScan D1230U Flatbed Scanner

- A4 1200x2400dpi flatbed scanner - optional 1200x2400dpi film scanning.
- Fast one pass USB scanning.
- Stylish charcoal grey and aluminium design.
- Includes Adobe PhotoShop 5.0LE & OmniPage OCR software for Win. and Mac.

CanoScan D2400UF Flatbed Scanner

- Optical resolution of 2400 x 4800 dpi.
- Film adaptor lid - for accurate scanning of 35mm, 2 1/4" and 4"x5" film.
- Outstanding colour accuracy.
- Ideal for professional studios, graphics and design bureaus.

PowerShot A70
DIGITAL CAMERA



(C3968)

\$679

PowerShot A20
DIGITAL CAMERA



(C3864)

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PowerShot DIGITAL IXUS-V



(C5389)

\$1,039

PowerShot DIGITAL IXUS 300



(C5653)

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magicolor 2200 DeskLaser

The first colour laser printer at a monochrome price

Affordable A4 colour for Windows workgroups. The low purchase price and operating cost of the magicolor 2200 DeskLaser make it affordable for any business requiring colour and black & white printing.

(C0669) **\$2,969** *Rent: \$29.11/wk

Print Speed	5 ppm colour, 20 ppm mono
Resolution	1200 x 600 dpi
Interface	NETWORK READY, 10BaseT/100 Base TX Ethernet, Bi-directional IEEE Parallel
Compatibility	Windows 95/98/2000/Me, NT 4.0



PagePro 1100L

Fast and inexpensive desktop laser printer

The award winning PagePro 1100L – A4 monochrome laser is the right business solution. It's fast at 10 pages per minute, and offers a high quality 600 dpi. It's also an inexpensive personal printer.

(A1438) **\$589** *Rent: \$6.45/wk

Print Speed	10 ppm A4 mono
Resolution	1200 x 600 dpi
Interface	Parallel
Compatibility	Windows 3.1x95/98/2000/Me, NT 4.0



magicolor 6100 DeskLaser

Prints up to 24 pages per minute in monochrome and up to 6 in colour. It's competitively priced to replace those black and white only printers. When it comes to flexibility, the DeskLaser is as versatile as they get. This colour laser printer supports A4, A3 and up to 13" x 19" and even has automatic duplexing capabilities.

(99572) **\$8,695** *Rent: \$75.44/wk

Print Speed	6 ppm colour, 24 ppm mono A4 3 ppm colour, 12 ppm mono A3
Resolution	1200 x 600 dpi resolution
Interface	NETWORK READY, 10BaseT/100 Base TX Ethernet, Parallel
Compatibility	Windows 95/98/2000/Me, N.T 4.0



NEW PRODUCT magicolor 3100

16ppm A4 tandem colour laser printer

Finally there's a desktop colour laser printer for business that prints just as fast in colour as it does in black and white. The magicolor® 3100 delivers up to 16 pages per minute to get the job done. It also has automatic duplexing for two-sided printing.

(D9169) **\$8,678** *Rent: \$75.29/wk

Print Speed	16 ppm colour & mono
Resolution	1200 x 1200 dpi
Interface	NETWORK READY, 10BaseT/100 Base TX Ethernet, Parallel
Compatibility	PostScript 3, PCL6, PDF, HP-GL

Laser Printers to suit your budget and requirements

Laser Printer

ML-1210

Personal 12ppm Printer

SSSH....its so quiet!

- Free extra 1k toner cartridge till February 2002
- double the memory of its nearest rival
- low cost per page
- Zdnet #1 in Top 5 laser printer category
- Very compact and whisper quiet



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ML-1210 (D8951) **\$579**

Toner Drum Cartridge
(3,000 pages)

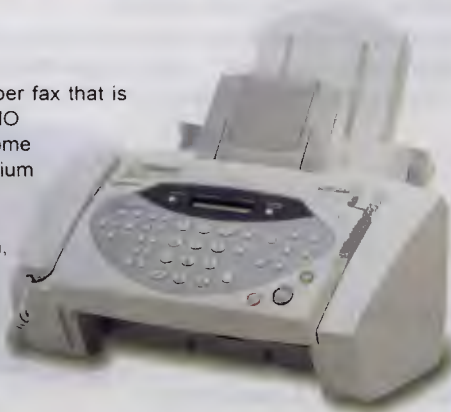
(D8971) **\$119**

Fax / Copier

SF-3200T

Fax/Copier

Stylish plain-paper fax that is perfect for SOHO (small office, home office) and medium size office applications. Its compact design, ease-of-use and high performance make this product a popular choice



SF-3200T (D8966) **\$479**

INK-M10 for SF-3200T

(D8975) **\$79**

• SRT R (SAMSUNG Resolution Technology) • SGTR (SAMSUNG Gray Technology)

Laser Printer

ML-1250

Personal 12ppm Printer

Compact and robust personal printing solution!

- Free extra 1k toner cartridge till February 2002
- low cost per page
- PCL 6 driver
- Very compact and whisper quiet



ML-1250 (D8129) **\$629**

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(3,000 pages)

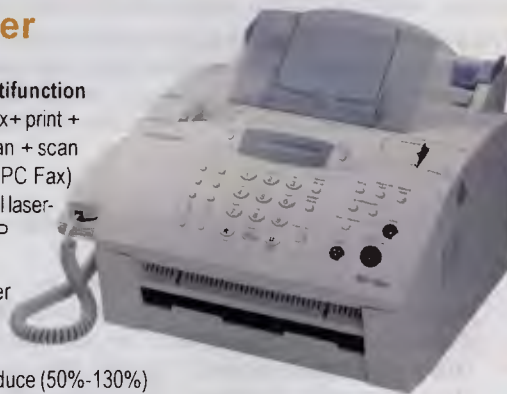
(D8971) **\$119**

Multifunction Printer

SF-5100P

Multifunction Printer

6-in-1 Multifunction printer (fax+ print + copy + scan + scan to email + PC Fax) economical laser-based MFP solution low cost per page copy enlarge/reduce (50%-130%) convenient telephone handset



.....a best-seller for Samsung

SF-5100P (D8963) **\$929**

Toner Drum Cartridge
(3,000 pages)

(D8973) **\$129**

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Why Type When You Can Scan

CardScan

System

Requirements:

- Windows 98, Windows 2000, Windows ME or later.
- 500 also supports Win 95, NT4
- Pentium processor or higher.
- 64MB of RAM.
- 35MB free hard disk space for a minimum installation and 50MB for full installation.
- CD-ROM drive.
- Modem for auto-dialing.
- Windows compatible network for sharing.
- USB or parallel port connection.

Eliminate lost cards, keep your leads up-to-date

You need

CardScan

Transform business cards into contacts you can access from anywhere. Take your stack of business cards and feed them into the CardScan scanner. Within seconds, CardScan Software organizes all the information into an electronic address book.

• QuickSearch™

Find contacts instantly by typing the first few letters of anything you can remember about a contact.

• Notes and Categories

Add notes and categories to a single card or entire batches of cards while scanning.

• AutoActions

Click on an email address and AutoEmail launches a pre-addressed email message. Click on a contact's web site and AutoBrowse takes you directly there. Click on a contact's address and AutoMap takes you to MapQuest™, providing you with a map of the area.

• Improved International Capabilities

Accurately read and sort business card information from many countries including Australia, Belgium, Canada, France, Germany, Sweden, the United Kingdom and the United States.

• Expanded Connectivity

Synchronize with all Palm™ handhelds, Microsoft® Outlook®, and more contact managers and PDAs (including Psion and Windows CE) than ever before.

CardScan 600c Scanner / V6 software

- 40% smaller than the CardScan 500 scanner. (D1035)
- Scan and view business cards in color.
- Connect through USB (Universal Serial Bus) port.

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CardScan 500 Scanner / V6 software

- Scan and view business cards in black-and-white.
- Connect through USB (Universal Serial Bus) or parallel port.

(A4103)

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- Bundled HeadCasting software for 3D communication
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- Third-generation DualHead® technology including eDualHead browser enhancements



G55+MDHA32DB Matrox G550 32Mb Single DVI output, Dual Head display

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(C7873)

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G55+MADDA32DB Matrox G550 32Mb Dual DVI output, Dual Head display

OEM

(C7874)

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G55+MDHA32DR Matrox G550 32Mb Single DVI output, Dual Head display

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G45+MVTA32DRi Matrox G450 32Mb Dual Head display

RETAIL

(C0016)

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STUDIO DV PLUS

(A8908)

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STUDIO AV

(75800)

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Studio DVplus is the perfect companion to your DV or Digital8 camcorder. You can transfer digital video directly from your camcorder to your PC hard drive. With the easy-to-learn Studio software, you'll be able to create professional-style movies from your DV or Digital8 camcorder tapes. The FireWire (IEEE 1394) and S-VHS outputs will let you export your final work on any kind of tape so anybody equipped with a regular VCR can play your tapes.

Take Hollywood Home! Pinnacle Studio AV version 7 is your complete video-editing solution. Simply capture favourite footage with the included Analogue capture card, and transform your movies into masterpieces with Studio's simple, drag and drop interface. Add professional features like fast/slow motion, Hollywood FX 3D effects, advanced image correction and more for the ultimate movie-making experience! Studio AV is formerly known as the Studio DC10+. It has the NEW studio 7 editing software along with an Analogue capture card. Same great product, just a new name!

PINNACLE EXPRESS DV

(D9016)

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STUDIO 7

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(A4573) **\$225**

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Numeric Keypad**



(D5967)

\$45

SWANN SPEED DEMON

56K V.90 External Voice/Fax/Data Modem

- New graphite version!
- Great value for money
- Bonus Telstra "100 hours" Internet Access CD
- Drivers and application CD included
- 1 year "Hassle Free" warranty



(87970) **\$95**

SWANN USB MULTI-HUB

USB 4-Port Hub

- Easy and convenient access to USB ports
- Allows "Hot Swapping"
- PC & Mac compatible
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- 1 year "Hassle Free" warranty



(C6793) **\$55**

SWANN SPYCAM

Miniature Video Camera

- Low cost security solution
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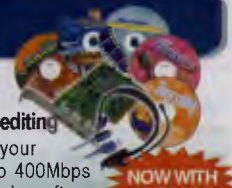


(A8661) GST INC **\$139**
Size comparable to
a 10 cent piece!

SWANN FIREWIRE® PRO DV KIT

Everything you need for easy and fun digital video editing

- Captures full screen video from your camera to your computer's hard drive with transfer speeds of up to 400Mbps
- Complete kit with FireWire PCI Card, comprehensive software, bonus headset and FireWire 6pin-4pin cable
- 1 year "Hassle Free" warranty



(A1794) **\$189**

SWANN FIREWIRE® STARTER KIT

- Captures full screen video from your camera to your computer's hard drive with transfer speeds of up to 400Mbps
- Bundled with the latest version of Ulead® 5 VideoStudio™ DVD Edition – Make your own VCD, SVCD or DVD home movies
- Enhances the value of your DV Camera
- 1 year "Hassle Free" warranty



(75886) **\$129**

SWANNFIRE CARDBUS

FireWire PCMCIA Card

- FireWire solution for laptops
- Data transfer speeds of up to 400Mbps
- Suitable for laptop users and travellers
- Allows "hot swapping"
- 1 year "Hassle Free" warranty



(C2307) **\$129**

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Video & Multimedia Tools

ADVC-100 DV CONVERTER

Convert your analogue tapes to Digital in one simple step! Ideal for PC users as well as ALL DV Editing Cards. Real Time Products -

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With DVRAPTOR-RT & Adobe Premiere 6.0

(D6096) **\$1,949**

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DVStorm SE

(C9352) **\$2,399**

Adobe Premiere 6.0 Option Available

DVRaptor-RT - With Adobe Premiere 6.0

(C6461) **\$1,499**



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Real time Preview of:

- 3 Video Streams
- 10 Motion Titles
- Transitions

with EZEdit (97877) **\$499**

with Premier 6.0 (C0023) **\$799**



New Real Time
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(D1566) **\$225**

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Allows you to watch
Live TV on your PC!



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Hauppauge TV GO FM (89064) **\$179**

Hauppauge TV USB (89066) **\$255**

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Personal Video Recorder..

Allows you to
record your
favourite shows on
your hard drive.



Hauppauge PVR USB (D1776) **\$635**

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Inspiration becomes reality...



Adobe InDesign 2.0

Adobe

Setting New Standards
for Professional Layout
and Design

Adobe InDesign 2.0 software sets new standards for professional layout and design and delivers the creative tools you've always wanted. It integrates better with other leading graphics applications — Adobe Photoshop®, Illustrator®, and Acrobat®—than any other page layout product. Plus, it's packed with intuitive features that reduce elaborate design tasks to a few quick steps, freeing you to be more creative. When you are ready to print, the results are precise and reliable. InDesign 2.0 also makes it easy for you to move beyond print with built-in support for publishing pages anywhere—to PDF, as eBooks, on the Web, and more.



(D1553) **\$1,840**



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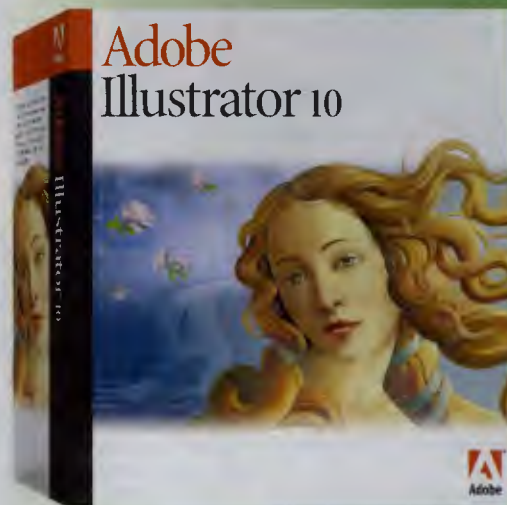


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(D1551) **\$1,085**

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Design Collection 5.0

Adobe Design Collection contains the following four leading-edge design & publishing applications in one fully integrated suite: Adobe InDesign™ V2.0, Adobe Photoshop® V6.0, Adobe Illustrator® V10.0, Adobe Acrobat® V5.0. Together, these programs give you everything you need to create & produce professional images, illustrations, & layouts, and to publish documents across media.



(D7854) **\$2,425**

Publishing Collection 11

The Adobe Publishing Collection brings together four powerful applications for business, education, and small-office/home-office professionals: Adobe PageMaker® 7.0, Adobe Photoshop® 6.0, Adobe Illustrator® 10.0, and Adobe Acrobat® 5.0. These complementary applications, along with the included templates and graphics, help you create, assemble, and deliver graphically rich, professional-looking communications for print and the Web. Everything you need, in one box, at one incredible price.



(D5983) **\$2,599**

Web Collection 3.0

The Adobe Web Collection is a comprehensive, tightly integrated software suite that gives you the power to design extraordinary still and interactive Web graphics, optimize those graphics for efficient downloading, and build dynamic Web sites that support the latest technology. Includes four award-winning Adobe applications: Adobe GoLive™ 5.0, Adobe LiveMotion 1.0, Adobe Photoshop® 6.0, and Adobe Illustrator® 9.0.



(B1152) **\$2,559**

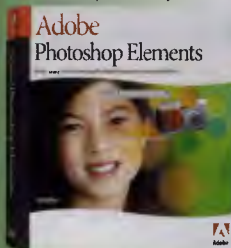


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Adobe Photoshop Elements

Creating and editing digital images for print and the Web has never been easier.



Adobe Photoshop Elements offers unique features designed specifically for amateur photographers, hobbyists, and business users who want an easy-to-use, yet powerful digital imaging solution. State-of-the-art image-editing tools free you to explore your creativity while mastering the elements of digital imaging. Flexible image-capture options let you work with photos taken with digital or traditional cameras, and versatile delivery features enable you to prepare images for print, e-mail, or posting on the Web.

(C0676) **\$229**

Adobe Photoshop 6.0

The world standard image editing solution

Adobe Photoshop 6.0 software introduces the next generation of image editing with powerful new features that offer something for every user. Now combine vector drawing tools and new layer design features that greatly enhance your creative options. Produce the highest quality graphics with an expanded Web tool kit that includes more timesaving features as well as ImageReady™ 3.0 software for advanced Web production tasks. Master the power of Photoshop faster with user-interface enhancements that make it easy to take full advantage of the comprehensive tool set.



(A8347) **\$1,499**

Adobe Acrobat V5.0

The best way to share documents online.

What good is a document you can't open? Whether you create business plans, spreadsheets, graphically rich brochures, or Web sites, Adobe® Acrobat® 5.0 software lets you convert any document to an Adobe Portable Document Format (PDF) file. Anyone can open your document across a broad range of hardware and software, and it will look exactly as you intended — with layout, fonts, links, and images intact. With Acrobat 5.0, you and your team can increase productivity by approving and commenting on documents from within a Web browser.



(B9398) **\$555**

Adobe Premiere 6.0

The essential tool for digital video editing

An essential set of tools for creating video for the Web, DVD, CD-ROM, and videotape. Get started quickly with built-in, cross-platform DV support. Easily prepare projects for the Web with one-step output to all the leading Web streaming-video formats. Work more productively with new storyboarding capabilities, enhanced Monitor and Timeline windows, a sophisticated new audio mixer, and a new Effects Control palette. Adobe Premiere 6.0 helps you streamline your most demanding video editing and production tasks.



(B4331) **\$1,385**

PageMaker 7.0

Business Made Easy Publishing

Adobe PageMaker 7.0 software is the ideal page layout program for business, education, and small and home office (SOHO) professionals who wish to create high-quality publications such as brochures and newsletters. Get started quickly with templates, graphics and intuitive design tools; work productively across Adobe applications; and leverage existing content to easily create customised communications.



(C6226) **\$1,305**

Open Options Transactional Licence Program

The essential tool for digital video editing

The Adobe® Open Options Transactional Licence Program (TLP) makes it easy for organizations with as few as ten workstations to participate in volume purchasing. It offers ease of entry, covers most Adobe products, and is available worldwide. The TLP is open to corporate, government, education, and small business customers.

Harris Technology is an Adobe Authorised Reseller who can help you take advantage of the Adobe Open Options Transactional Licence Program.

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in regard to upgrading your Adobe software on 1300 13 9999

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macromedia volume license program

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GENERAL INFORMATION

LICENSE

SUBSCRIPTIONS

What are the benefits of the Macromedia Volume License Program (MVL)?

Streamline License Management – An easier way to purchase and track licenses.

- **Cost Savings** – Each purchase contributes to higher levels of discount.
- **Mix and Match** – Cross product and cross platform offerings available.
- **Stay Current** – The purchase of subscriptions ensures that you will always have the latest version of our award winning products.

Is a contract required to join the MVL?

No.

Is the Macromedia Volume License Option (VLO) accumulative or transactional license program?

The Macromedia VLO is a cumulative program. Customers can qualify for higher levels of discount based on their point total – calculated on a rolling 8 quarter (24 month) basis.

What are Subscriptions and how long does the period last for?

Software subscription entitles the customer to free version upgrades (e.g., 4.0 to 5.0), updates (e.g., 4.1 to 4.3) and bug fixes during the active subscription period. The subscription period of coverage is two years.

If customers purchase subscriptions, will they automatically receive upgrades and bug fixes for their software?

Yes.

Does purchasing a subscription contribute towards obtaining a higher discount level?

Yes.

When can I purchase a subscription?

Only at the time of your initial software order.

TECHNICAL SUPPORT

What technical support services do Asia Pacific MVL customers receive?

Registered customers receive 90-day complimentary technical support from Macromedia's Technical Support Department
www.macromedia.com/ap/support/

EXAMPLES OF AVAILABLE LICENSING



Macromedia Full Licenses
(Program/Points Information)

(C4140)

Info



Dreamweaver 4 Win AP
Eng COM Full - A

(D4664)

\$609



Flash 5 Win
AP Eng COM Full - A

(D4745)

\$812



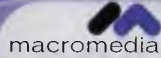
Dreamweaver 4/Fireworks 4 Studio Win AP
Eng COM Full - A

(D4678)

\$812

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what the web can be.



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FULL VERSION (C6733) **\$1,580**

UPGRADE (B4835) **\$870**



DREAMWEAVER ULTRADEV / FIREWORKS STUDIO

Build ASP, JSP or CFML Web applications faster!

Rapidly build database-driven Web applications for industry standard servers and databases and maintain total control over source code with a professional hand-coding environment. Maximize productivity with built-in server behaviors and Live Data Preview. Designed specifically for application development, Macromedia Dreamweaver UltraDev is a brand new product based on the Dreamweaver core architecture. If you already use Macromedia Dreamweaver, you will appreciate the familiar interface and working environment. If you are currently developing Web applications by hand or with another solution, you'll find that Dreamweaver UltraDev makes it faster and easier to get your work done.

• Now includes ColdFusion 5.0 Studio, JRun 3.0 Studio and Homesite 5

FULL VERSION (B6785) **\$1,299**

UPGRADE (D3407) **\$349**
from UltraDev



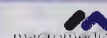
DREAMWEAVER 4

Professional web development solution!
Dreamweaver® 4 Create a professional web site with intuitive, Macromedia user interface. Manage your site with the text-editing environment which gives hand-coding professionals the control they demand. Instantly create high-impact Macromedia® Flash™ graphics directly in Dreamweaver, drop in content from Microsoft Office and easily import Fireworks, pop-up menus and buttons to create engaging Web experiences.

FULL VERSION (B3026) **\$649**

UPGRADE (B3137) **\$337** • Now with Homesite 5

* Upgrade from Dreamweaver



COLDFUSION 5

Easily assemble powerful solutions

Macromedia ColdFusion 5 is the fastest way to build and deploy powerful Web applications. Create the applications you need - quickly and easily - with ColdFusion 5, including content-publishing systems, online stores, business reporting and self-service solutions. Build applications quickly with an intuitive tag-based scripting language and rich, visual tools - ColdFusion Studio and Dreamweaver UltraDev.

Coldfusion Server edition (C9617) **\$2,475**

Coldfusion Enterprise (C9618) **\$9,279**



FIREWORKS 4

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Create, edit and animate Web graphics in a robust professional environment. Add advanced interactivity, optimize images and integrate seamlessly with Macromedia applications for efficient development.

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UPGRADE (B4664) **\$337**



DIRECTOR 8.5 SHOCKWAVE STUDIO

DIRECTOR 8.5 Shockwave Studio is the solution for developing magnetic destination content and interactive media on the Web, CD/DVD-ROMs and corporate intranets including dazzling entertainment, interactive product demonstrations and online learning applications. The Studio Includes Director 8.5, Fireworks 4, Shockwave Multuser Server3, sound editors and shockwave player 8.5

FULL VERSION (C2453) **\$2,229**

UPGRADE from V8 (C2454) **\$455**



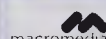
FREEHAND 10

Maximize your creative abilities!

FreeHand 10 offers graphic designers unsurpassed productivity features including Master Pages, the new Macromedia User Interface and sophisticated vector-based illustration tools. Enhance your project workflow by creating once, then publishing across multiple media including print, Web and beyond.

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UPGRADE (C2460) **\$339**



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FULL VERSION (A5789) **\$859**

UPGRADE (B0809) **\$339**

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AutoCAD LT 2002
(C7859)



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Desktop 3.3
(C9723)



Autodesk
Mechanical
Desktop 6 (C7928)



Autodesk Inventor 5
(D5167)

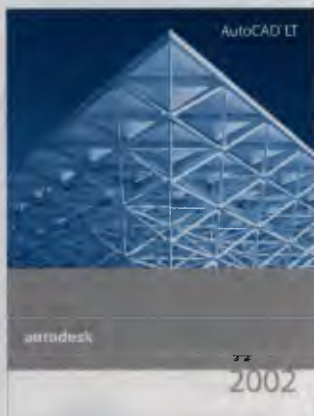


Autodesk Land
Desktop 3 (C9623)



Autodesk 3D
Studio Viz R3i
(B0888)

AutoCAD LT 2002



(C4281)

\$1,780

(C4282)

UPGRADE **\$466**

AutoCAD LT® 2002 is the only 2D CAD program providing 100 percent DWG compatibility with AutoCAD® 2002 based products. That means you can open, edit, and exchange drawing files (DWG) with complete confidence. A comprehensive Internet toolset

streamlines collaboration between design team members, shortening cycle times and reducing costs. Plus new enhancements like automated associative dimensioning help you create quality designs more efficiently. AutoCAD LT® 2002. Connected. Collaborative. And powerfully 2D.

AutoCAD 2002

(C7856)

\$7,199



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(C9773)

\$3,829



Volo View 2

Volo™ View 2 software is a cost-effective, easy-to-use digital design viewing solution that lets everyone on your team electronically review, mark up, measure, and plot AutoCAD® and Autodesk Inventor™ based drawings. Upgrades also available.

(D1736)

\$385

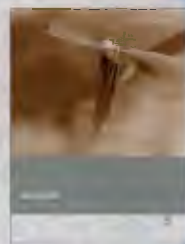


AutoSketch 8

From concept sketches, information graphics, and floor layouts to presentations, electrical drawings, and home project plans, you can draw it - quickly and accurately - with AutoSketch® Release 8 software.

(D9136)

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QuickCAD 8

Begin designing on a computer right away with QuickCAD™ Released 8. Plenty of productive features let you make technical designs and diagrams, and you can start drawing the very first time you use it.

(D5996)

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Using the toolbar-style interface, you can find 5,600+ of the most commonly used symbols with only 2 mouse clicks, and easily insert them into your drawings.

(A1319)

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(A1320)

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Intelligent graphics at work

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(B4376)
\$665

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(D5803)
\$315



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Is everything you need for technical illustration, image editing and web graphics providing precision drawing and versatile publishing tools along with 55 import/export filters including CAD, Adobe PDF and Macromedia Flash. Also included, Picture Publisher 9 is an innovative professional image-editing application with incredible visual effects.



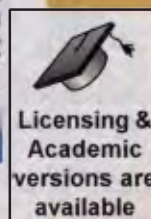
(C6730)
\$845

Picture Publisher 10 DIGITAL CAMERA EDITION

Manage, correct, enhance, create, and publish your digital pictures quickly and effectively. The perfect companion for your digital camera. Affordable yet powerful, Picture Publisher is ideal for small businesses and freelance artists that need to create high-impact graphics for print, presentations and the Web. As an essential component of any digital darkroom, you can use one-click macros to enhance and correct your pictures, apply one of many artistic special effects to turn your photo into a work of art or use PhotoAlbum to effectively manage, enhance and batch process your photos.



(D8833)
\$115



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Mail essentials is the market leading email content security software. It acts as an Email Firewall and protects you from headline-hitting viruses such as Sircam, as well as email attacks targeted at your organisation. In addition, Mail essentials adds important key features to your mail server, such as Anti-Spam, Email encryption, Email archiving, Disclaimers, Personalised auto responders, POP3 downloading and more. Native Exchange 2000 version is now available which also scans internal mail!

from: 10 users
(C4380) **\$677**

LANGuard

Content Filtering and Anti-virus for ISA Server



LANGuard for ISA Server helps you protect against the huge security risk posed by HTTP and FTP access from the workplace. Built on top of Microsoft ISA server, it scans all inbound material for viruses, Trojans or objectionable material. Using LANGuard's powerful rules engine, you can configure rule sets that allow you to quarantine dangerous files for administrator approval. LANGuard also enables you to set up rules that can prevent unproductive use of the Internet at the workplace.

from: 25 users
(C4366) **\$765**

LANGuard

Intrusion Detection through Security Event Log Monitoring



LANGuard Security Event Log Monitor (S.E.L.M.) is a revolutionary new intrusion detection product that alerts you to any unauthorised activity occurring on your network by monitoring the security event logs of all your Windows NT/2000 servers and workstations. A firewall will offer no protection against attacks originating from within the company. LANGuard SELM alerts you to possible intrusions/attacks in real time.

from: 5 User Workstations
(C9889) **\$265**

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procreate™

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UPGRADE (C9239) **\$485**

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on-line?



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procreate **KnockOut 2.0**

(D3901) **\$674**

Part of the procreate™ line of software, KnockOut 2 lets you preserve fine image details that were once impossible to mask precisely. It's an ideal plug-in for Adobe® Photoshop®.



COREL Bryce 5

(C5869) **\$689**
UPGRADE (C9209) **\$355**

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(C5870) **\$320**

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KPT Vector Effects 1.5

(A4757) **\$345**

KPT Vector Effects® 1.5 is a powerhouse of creativity plug-ins for Adobe® Illustrator® 7, 8 and now version 9. It includes over a dozen plug-ins to dramatically extend the possibilities of your digital illustrations.

Word Perfect Office 2002 Standard

(C3601) **\$855**
UPGRADE (C3602) **\$349**

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procreate **KPT Effects**

(D1534) **\$395**

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COREL CorelDraw 10

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KPT 6

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Word Perfect Office 2002 Professional

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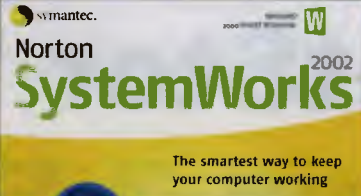
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Back to Business Bundle

SystemWorks 2002 protects your PC against virus threats, optimises performance and provides quick and easy system recovery. While Norton Personal Firewall 2002 keeps hackers out and personal data in.

Norton SystemWorks/Norton Personal

Firewall Bundle (D9322): **\$162**

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SystemWorks 2002 protects your PC from virus threats. Norton Utilities optimizes PC performance and solves problems. Norton CleanSweep cleans out Internet clutter. GoBack by Reto provides quick and easy system recovery.	Blocks online intrusions. Keeps your personal information private. Secures your PC automatically.
Norton Systemworks(D0787) \$122	Norton Personal Firewall(D0220) \$79

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Norton WinFax Pro V10.02


(D6011)

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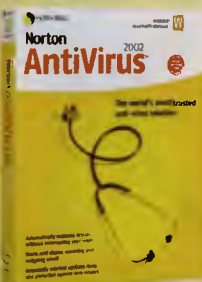
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Windows
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(C9612)

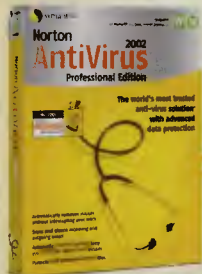
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Norton AntiVirus
5 User

(D3475) **\$259**

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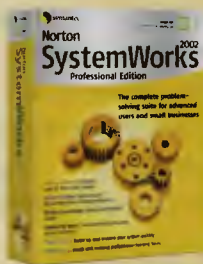
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(D9150)

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Norton SystemWorks 2002 Professional Edition

Norton System Pro Works (D0680)

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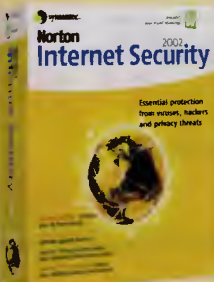
- Norton AntiVirus™ 2002, (C9612) **\$85**
- Norton Utilities™ 2002, (D0667) **\$89**
- Norton CleanSweep™ 2002, (D0785) **\$69**
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Norton Internet Security 2002

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(D0219)

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Security 5 User

(D4517) **\$335**

Norton Internet Security 2002 Pro

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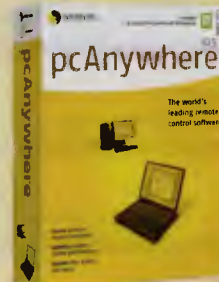
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Windows
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NEW!

(D8088)

\$249

Norton pcAnywhere
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- Offers easy and automatic installation

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- Point-in-time file restoration
- Changed Byte and Block detection
- Disconnected Backup process
- Open File Agent



\$258

Per node

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(Minimum of ten NODES per purchase)

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BrightStor Arcserve 2000 Wg/Adv Open Files Agent for NT/2000 (A2242) **\$1,349**

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ARCserve 2000 Advanced Edition & Open Files Agent Storage Essentials Suite plus DRO (D9280) **\$3,434**

ARCserve 7 for NetWare Single Server Edition & Open Files Agent Storage Essentials Suite plus DRO (D9281) **\$2,518**

ARCserve 7 for NetWare Enterprise Edition & Open Files Agent Storage Essentials Suite plus DRO (D9282) **\$3,585**

ARCserve 7 for NetWare SBS & Open Files Agent Storage plus DRO (D9283) **\$2,672**

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than before. Get started right away with a wide-ranging collection of ready-to-run productivity solutions for workgroups – including asset tracking, event management, project tracking, & more.

FILEMAKER PRO 5.5 UNLIMITED

(D4277) **\$2,167**

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The result delivers better value to organisations, as more people will now be able to access information from multi-dimensional OLAP data, and gain better insights to help decision-makers impact business performance.

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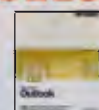
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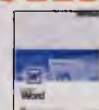
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Part Number	 (C2082)	 (C2084)	 (C2772)		(C2837)	(C7855)
Upgrade:	\$475	\$654	\$1,049	\$894	N/A	N/A
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Back to Business...

Our February catalogue is jam packed with great products that can solve your PC problems and requirements, all at rock-bottom prices.

For many businesses, it's now a perfect time to upgrade software and hardware within the office and/or home before things get busy again. Symantec have released a great bundle for this "back-to-business" period - SystemWorks and Personal Firewall together for only \$169 (refer page 12)! In the "world" of PDA pocket PCs, HP, Toshiba and Compaq have released new products, all featuring Microsoft's new Pocket PC 2002 operating system. Check them out on pages 8 and 9. Toshiba have also released their new Satellite Pro series of laptops on page 10.

Remember to check out www.iswh.com.au for extended product information and further specials. If you don't have access to the internet, call 1300 300 003 and one of our friendly customer service representatives will be happy to help you.

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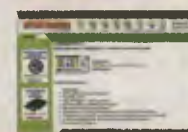
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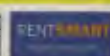
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in suitable packaging, bearing our returns number on the outside. Returns not complying with these terms will be refused. Where a manufacturer offers a money back guarantee, this will normally involve you sending the product back directly to the manufacturer, who will process the refund themselves. Price Pledge: Refers to Australian products available ex-stock. We will beat the advertised total cost (including delivery) subject to not selling below our cost price. We reserve the right not to beat prices of liquidated, end of line or OEM items, and will not match prices that have been printed incorrectly. The price pledge is only available at the time of ordering. Special Offers: All special offers are subject to availability, and may be in promotional packaging (packaging may refer to boxes, manuals, etc.) All photographs are for identification purposes only. ABN 11054615253



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THE POWER TO BURN

SONY Int 16x10x40 IDE CD-RW Retail Kit

Combines 16X recording with the latest High-Speed RW technology; now you can use CD's like large (& fast) floppy/Zip Disks. Easy to install, it features low cost IDE interfacing and is perfect for home or business. Supplied as a kit, it comes complete with cables, media and Adaptec software. Requires 5.25" 1/2 height drive slot & IDE address.



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Websearch Code...SONY01

SONY Int 12x8x32 SCSI CD-RW Retail Kit

The CRX1605 is a professional drive designed for Audio/Video work, incorporating the latest High-Speed R and RW technology and features performance SCSI interfacing. Supplied as a kit, it comes complete with cables, media and Adaptec software. Requires 5.25" 1/2 height drive slot and SCSI card or inbuilt interface (SCSI-II recommended). Software: Roxio CD Creator V4 & DirectCD V3 (CD-ROM) for Microsoft Windows 95, 98, NT, 2K or ME.



\$419.00
Websearch Code...SONY82

SONY Ext 1394 12x8x32 CD-RW Kit (Firewire)

Combining 12X burning with the latest high performance interfacing. Supplied as a kit, it comes complete with cables, media and Roxio software for Mac & Windows - Roxio CD Creator V4, DirectCD V3 & Toast V4. Hardware (PC): 6 pin 1394/Link/ FireWire interface, (Mac): Apple G4, Blue & White G3, iBook & iMac DV (NOTE: Apple Firewire PCI card NOT supported) Software (PC): Win 98, 2K or ME Software (Mac): OS 8.6 or higher, Apple FireWire 2.1 or higher.



\$585.00
Websearch Code...SONY89
RentSmart \$6.41 pw

LaCie FireWire DVD-RAM/R

LaCie DVD-RAM/R Drive The power of creation Two drives in one: combo DVD-RAM/DVD-R in one drive 9.4GB DVD-RAM/4.7GB DVD-R(writes DVD-RAM and DVD-R media) For PC comes with Sonic MyDVD & DVD-R PowerDVD, PrimoDVD. For Mac comes with Toast5lite, Retrospect (MacOS 9 only) High-speed performance: fast FireWire interface Broad compatibility: records and reads DVD-RAM and DVD-R media.



\$1249.00
Websearch Code...111098
RentSmart \$13.09 pw

LaCie Pocket CD-RW Compact Disc-Recorder

- Read and write CDs anywhere
- FireWire (IEEE 1394) performance, USB convenience
- Hot-pluggable: easily swap among Macs and PCs
- Unique design: stylish, ultra-portable, shock absorbent with a handy cable groove
- Autonomous: no need for an AC adapter with self-powered FireWire bus



\$649.00
Websearch Code...130248
RentSmart \$7.11 pw

LaCie External CD-RW for Mac & PC

USB & FireWire in new StudioDrive casing!

It can be connected to most computers equipped with a USB or Firewire interface. Users of Mac OS or Windows 98/98SE/2000 and ME will benefit from the convenience of the plug & play features, including the freedom to hot-plug the drive while the computer is running, no rebooting is required. Comes complete with cables and software Toast 4.1 for Mac, Easy CD Creator for Windows.



8x W/ 4x RW/ 32x R
USB 2.0
\$379.00
Websearch Code...LAC028

16x W/ 10x RW/ 40x R
B/proof Ext FireWire & USB
\$535.00
Websearch Code...111134
RentSmart \$5.86 pw

24x W/ 10x RW/ 40x R
B/proof Ext. FireWire & USB
\$585.00
Websearch Code...LAC027
RentSmart \$6.41 pw

hp CD-Writer Drive cd4ce External

4X write, 4X write, 6X read with USB 1.1 interface. 2MB buffer, 125ms random access time, 1.5MB/sec burst transfer rate. Includes HP CD Creation software, MusicMatch Jukebox, ArcSoft PhotoCenter and ArcSoft Video Impression



\$469.00
Websearch Code...189258

hp 8230e 4x4x6 USB

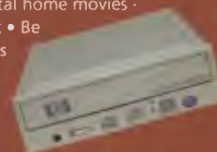
hp CD-Writer is very easy to install with a one sheet quick installation guide, a video to provide step-by-step installation assistance and a detailed website to provide additional installation assistance.



\$439.00
Websearch Code...HPP120

hp DVD 100i

- Be the director . . . use your hp dvd writer to create your own home movies, music or photo discs on DVD or CD
- Be the critic . . . watch all of your favorite DVDs
- Be secure . . . your hp dvd-writer allows you to back-up and archive up to 4.7GB worth of valuable files - even video or digital home movies - on a DVD+RW disc
- Be fast . . . create DVDs at speeds of up to 2.4x rewrite



\$1449.00
Websearch Code...130939

CD & DVD WRITERS

Roxio Toast 5 Titanium For Mac

Creates music, data & video CDs. Toast Includes: CD-Spin Doctor, Qdesign MVP, iView Multimedia, Magic Mouse Discs, Toast Audio Extractor, Roxio Bonus CD with MP3 songs, video clips and 4 short films. User Guide, cable to connect a computer to a stereo system's Lineout.



\$179.00
Websearch Code...ATOAST

Roxio Easy CD Creator 5 Platinum

Software that goes way beyond the software that came with your CD-Recorder. Now it's easier than ever to create music, photo, video, and data CDs. Access music on the Internet. Fine tune your music tracks. Edit and enhance photos and videos with a pro's touch. Includes: CD with Sound Stream 2, DirectCD, Take Two, Spin Doctor, CD Copier, ideol-mpression, Photo Album, Video Postcard, VideoCD Creator, CD Label Creator, Sound Editor, Session Selector, Web CheckUp.



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Websearch Code...EASYCD

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QuickPayroll 8

Payroll management gives you the ability to comply with the latest reporting requirements brought about by the GST.

- Track employee leave, pay and superannuation details.
- Work with a flexible Award interpretation system.
- Print payroll outputs.
- Electronically lodge payment summaries on ATO stationery.

QuickPayroll v8 links with QuickBooks v8 software to transfer payroll information directly into the company's accounts.

HOT PRICE



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QuickTrack Solutions V3 QuickBooks goes mobile!

Have you caught up with the changes in the mobile business management and accounting solutions sector? QuickTrack Solutions software runs on your Personal Digital Assistant allowing you to run your business from the palm of your hand, wherever you may be. With QuickTrack you can prepare and print the invoice and hand it to your customer on site with your handheld PC!



\$265.00
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Quicken Personal 2002

Quicken Personal 2002 is the easiest way ever to manage your personal finances. Developed for Australia, Quicken Personal is the world's best selling financial management software making it very quick and easy to:

- Track your family income and expenditure
- Manage your investments and share portfolio
- Track your credit cards, bank accounts, loans and savings goals
- Prepare tax returns in minutes
- Link with the ASX to automatically update your share portfolio.

HOT PRICE

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Websearch Code ...QUI200

\$89.00
Websearch Code ...QUI201

FREE copy of Quicken ShareAnalyser (RRP \$199.95) for every copy of Quicken Personal Plus 2002 purchased till 31st March 2002. Conditions Apply - Original proof of purchase, original barcode cut from box and delivery details required by Quicken to honour this offer. (Valid on full versions only). Conditions apply.

*Offer valid till 31/3/2002.

QuickBooks and QuickBooks Pro 8

Designed especially for small and medium businesses with double entry accounting needs, QuickBooks is GST Easy, to simplify the management of the GST in your business. QuickBooks' GST management technology, plus the simple set-up and ease of use, sets the product apart from the rest. Getting started and then using QuickBooks on a day-to-day basis is easy, with simple navigation, lay out and easy to use features. QuickBooks offers the ability to tailor the product more specifically to your requirements, such as choosing cash only or accrual double entry accounting.

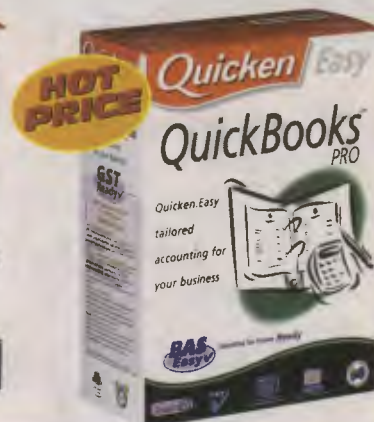
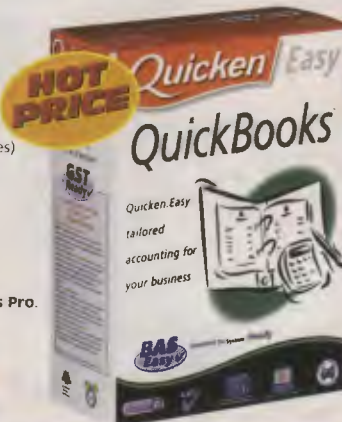
New features in Version 8

- Tear off Remittance advice
- STS (simplified tax system) depreciation register
- MYOB Data converter
- Accounts Data Transfer (for Solution 6, & Xlon packages)
- Credit Advantage (speedy credit checking)
- Instalment Activity Statement
- Improved Business Activity Statement (BAS)
- Online backup (free 30 trial)

Includes **cashback voucher** for those upgrading from previous selected versions of QuickBooks and QuickBooks Pro.

\$218.00
Websearch Code ...QUI166

\$385.00
Websearch Code ...QUI168



Quicken CashBook

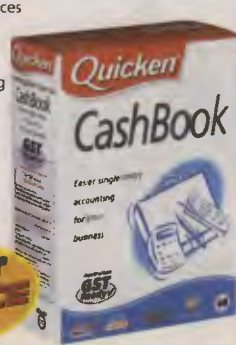
CashBook is a single entry cash accounting package for small businesses. This package will easily manage your business finances. CashBook uses single entry accrual accounting. CashBook also monitors sales, controls production, stores customer and supplier records and logs customer enquiries. It also produces quotes, work orders and invoices.

CashBook features include:

- Producing quotes, work orders and invoices
- Managing work in progress and updating job records
- Accounts receivable and payable tracking
- GST management for tracking inputs and outputs for the relevant tax codes (except Wine Equalisation Tax)
- Producing the information needed for Business Activity Statements
- Tracking bank balances and printing cheques

\$165.00
Websearch Code ...QUI175

HOT PRICE



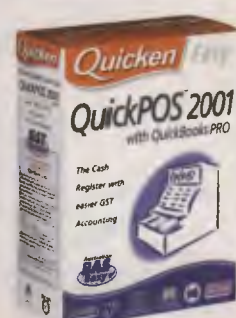
QuickPOS with QuickBooks Pro

QuickPOS 2001 is the answer to a simple, computerised cash register. QuickPOS functions keystroke for keystroke as a standard Electronic Cash Register would to make sales. This makes QuickPOS very easy and fast to use with minimal training required. QuickPOS will track your sales, inventory, employee, accounts receivable and chart of accounts with the press of a button.

New features in Version 4

- Customisable end of day processes
- Blind cash drawer reconciliation
- Global Management Override
- Web Browser
- Change prices straight from QuickPOS
- Random Price Barcodes
- Integrated Eftpos (no more double keying)
- Currency conversion (accept any currency or travellers cheques)

\$1569.00
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MYOB

Move your business forward

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MYOB accounting and business management software is trusted by over 300 000 Australian businesses.

Made in Australia for Australian business conditions.

MYOB software is written and produced in Australia for Australian business conditions, and is designed to take the stress and complexity out of managing your business, the GST and the BAS.

The complete business solution

MYOB provides a range of support options to help you make the most of your MYOB software, including 30 days of free introductory telephone support, access to web-based Support Notes, an optional year-round support program, and a range of training options to help you or your employees get up to speed.

The business software family that'll always be there for you

Whatever the size of your business, MYOB offers a range of accounting and business management solutions to suit your needs. And if your business situation changes – through growth, legislation changes or technology advances – MYOB will be there for you.

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MYOB FirstAccounts v3.5

*Basic accounting and business management
Ideal for tradespeople!*

FirstAccounts is a basic first accounting system for small owner-operators who need to keep on top of their accounting obligations and want to add a business management edge – but without the expensive overheads of a full back office.

It's easy to understand and full of features that keep the amount of time you spend on your accounts to an absolute minimum. You don't get lost in the details, and you don't get tied to a desk – you just process your accounts and get straight back to running your business.

- Cut back your paperwork
- Streamline your accounts
- Understand your business
- Track your GST



MYOB Accounting v11

Integrated business management

MYOB Accounting is for businesses that need to streamline accounts procedures and would benefit from improved inventory management, better management of customer and supplier relationships, and advanced business reporting.

- Streamline accounts procedures
- Comprehensive business management
- Powerful inventory management
- Contact management



MYOB Accounting Plus v11

*Business, payroll and time management
For employers*

MYOB Accounting Plus is for businesses that need to streamline accounts procedures and would benefit from improved inventory management, better management of customer and supplier relationships, advanced business reporting, and automated payroll or time billing.

Fully integrated payroll

Process pays, PAYG and employee entitlements with a few mouse clicks – pay by cash, cheque or electronically.

Professional time billing

Automatically track the costs and charges of every business activity.



MYOB Premier v5

Powerful multi-user business management software

MYOB Premier is for businesses that need to streamline accounts procedures, whether through simplifying complex inventory issues, running an automated payroll, time billing, accessing advanced reporting or increasing productivity with multi-user access.

Premier's combination of productivity-enhancing features will appeal to any business that has complex inventory requirements, works with more than one currency, or requires multi-user access.

"...you'll find it to be the most affordable and user-friendly multi-user software available, as well as coming with fantastic support, training and documentation."

- Australian PC World, June 1999



MYOB Pocket Accounts

MYOB PocketAccounts, a handheld sales and time billing program that helps businesses with a mobile sales or consulting force improve their efficiency and cash flow.

MYOB PocketAccounts runs on a Palm OS(r) device and links seamlessly with MYOB accounting software on the desktop, allowing users to synchronise their entire day's data at the push of a button.



MYOB RetailManager v5

Retail point-of-sale management

Designed specifically for the Australian retail environment, MYOB RetailManager replaces the cash register with a point-of-sale system that streamlines store operations, manages sales, stock, GST, staff and customers, and produces critical reports across a wide range of business activities.

- Fast, flexible sales processing
- Simplified stock control
- Streamlined stocktaking procedures
- Easy to use and understand
- Retail-specific business analysis
- Stand alone or integrate with select MYOB software



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Symbols 2000 Architectural

A professional collection of more than 5,600 architectural symbols that let you complete detailed floor plans and construction documents dramatically faster. The package includes symbols for external layouts (bushes, trees, people), plan views, elevations and sections, electrical installation, building services/HVAC (plumbing, ventilation), kitchens, bathrooms, office furniture, network planning, pictograms for recreation, sports organisation and planning.



\$149.00

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Symbols 2000 Engineering

A collection of more than 10,000 symbols in total, covering symbols for manufacturing and schematics drawings. The set includes more than 3,100 symbols for electrical schematics and installation plans complying with IEC standards with symbols for switching equipment, generation and conversion of energy, telecommunications and electrical installation.



\$149.00

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AutoCAD LT 2002

AutoCAD LT® 2002 is the only 2D CAD program providing 100-percent DWG compatibility with AutoCAD® 2002- based products. That means you can open, edit, and exchange drawing files (DWGs) with complete confidence. A comprehensive Internet toolset streamlines collaboration between design team members-shortening cycle times and reducing costs. Plus new enhancements like automated associative dimensioning help you create quality designs more efficiently. AutoCAD LT 2002. Connected. Collaborative. And powerfully 2D.



Upgrade
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Full Version
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Educational
pricing
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AutoCAD 2002

With AutoCAD® 2002, you can get your design information where it's needed- quickly, easily, and accurately. Its design collaboration tools help you maximize the value of your design data-by sharing files, accessing design resources, and meeting in real time with the entire project team. With powerful features such as CAD standard management tools, associative dimensioning, new Object snaps, 3D Orbit and more, AutoCAD® 2002 will help you create quality designs more efficiently giving you that strategic competitive advantage.

Upgrades also available for AutoCAD 2000 and AutoCAD 2000i. Call for pricing.



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Volo™ View 2 software is a cost-effective, easy-to-use digital design viewing solution that lets everyone on your team electronically review, mark up, measure, and plot AutoCAD® and Autodesk Inventor™ based drawings. Upgrades available, call for pricing.



New
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AutoSketch 8

An affordable and easy-to-use precision drawing tool for new or occasional CAD users who need to create conceptual drawings and sketches. It provides productivity and ease of use features not found in other low cost precision drawing programs. From concept sketches, information graphics and floor layouts to presentations, electrical drawings and home project plans, you can draw it all - quickly and accurately.



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QuickCAD 8

QuickCad is the most affordable design program that Autodesk offers, but its low price doesn't diminish its capabilities. It comes with plenty of productivity features that let you make technical designs and diagrams. With its short learning curve, QuickCAD lets you start drawing right away by offering a simple beginner interface, then as you grow familiar with its capabilities, you can change to advanced or expert levels.



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Version

\$89.00



Student Versions \$275



Autodesk
AutoCAD 2002



Autodesk
Architectural Desktop 3.3



Autodesk
Mechanical Desktop 6



Autodesk
Inventor 5



Autodesk
Land Desktop 3



Autodesk
3D Studio VIZ 3i

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FileMaker Pro 5.5 is the world's first software native for Mac OS X and logo-certified for Windows 2000. FileMaker Pro 5.5 brings instant productivity to today's business workgroups, helping you manage and share vital information with colleagues across the office or around the world. Whether you interface with Microsoft Office, develop your own databases, or exchange information with any kind of application, the new design tools in FileMaker Pro 5.5 will let you create powerful, customised business solutions. The new and faster FileMaker Pro 5.5 Web Companion provides a richer FileMaker experience over the Web, allowing for easy information collection and sharing.



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Microsoft Project 2000 provides you with the flexibility needed to collaboratively plan and track projects and deliver the results your business demands. It is the single planning tool for everyone in an organisation. Includes 1 Project Central client license



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FileMaker Developer 5.5

FileMaker Developer 5.5 is the essential development environment for creating professional custom FileMaker solutions to be used for the Web, across workgroups or as royalty-free runtime applications. Powerful tools have been added to save you valuable development time. Test and verify your scripts with the new Script Debugger. Document the structure of any FileMaker solution with the push of a button and view detailed information on fields, layouts, value lists, scripts, relationships and passwords. Connect to external data sources with our JDBC, or ODBC drivers. Whether you are developing commercial or in-house solutions, FileMaker Developer 5.5 is the tool of choice.



\$949.00
Websearch Code F1L031

FileMaker Mobile

Companion for Palm OS

Be productive in just minutes with this easy-to-use FileMaker Pro 5 companion-just load and go. Take along just the data you need; load the field names and data you select from your single-user FileMaker Pro 5 databases onto the Palm OS handheld with just a few clicks. No need to invest time or effort to re-build your databases on the handheld; FileMaker Mobile does it for you.



Palm for illustration purposes only.

\$109.00
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Windows 2000 Professional

Windows 2000 Professional is the best desktop and mobile operating system for businesses of all sizes. It's the easiest, most reliable Windows yet because it combines the reliability, security, and manageability of Windows NT Workstation with the best business features of Windows 98. In addition to removing unnecessary desktop items, Windows 2000 Professional introduces Personalised Menus, a new "smart" feature that adapts the Start menu to the way you work by showing you the applications you typically use most often.



MS Prof. Win 2000 NT4 UG
M55596 **\$335.00**

MS Prof. Win 2000 Win95/98 UG
M55597 **\$485.00**

Full Product
\$669.00
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FileMaker Server 5.5

The Database Server for Growing Workgroups

An easy-to-use relational database server - is the best way to host your FileMaker Pro 5.5 solutions on Windows 2000, Mac OS X, Mac OS and Red Hat® Linux. This high-performance server engine supports up to 250 FileMaker Pro 5.5 guests simultaneously on multiple platforms with several protocol options and up to 125-hosted files. It includes automatic plug-in updating, scheduled backups and remote administration tools to monitor server activity and to control guest and file connections.



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FileMaker Pro 5.5 Unlimited

Powerful Web database publishing which brings expanded productivity to the business workgroup. Utilise the FileMaker Web Server Connector to increase the performance, reliability and scalability of your FileMaker Web databases. Use multiple copies of FileMaker Pro 5.5 Unlimited to set up a redundant array of inexpensive computers structure to provide scalable load balancing and ensure operation through fail over situations. It may also be used with a wide variety of middleware applications, CGIs, and application servers for large-scale customised web solutions.



Unlimited Web deployment

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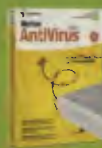
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Palm m500/m505

Leather Wallet Case

Beautifully crafted of soft black leather with a slim design that's a perfect fit for your pocket or purse. Also a full-featured wallet. *Palm not included.

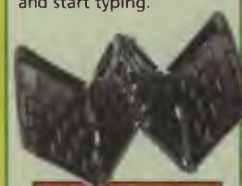


\$75.00

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Palm m500/m505 Keyboard

Weighing in at less than 8 ounces, this full-size keyboard folds into a size just slightly bigger than a Palm™ organizer itself, making it a practical enhancement for those seeking the speed of data entry that only a keyboard provides. Set your Palm organizer in the custom docking cradle and start typing.



\$245.00

Websearch Code189289

Palm v Stylus

This convenient, affordable multi-pack lets you keep extra stylus at home, in the office, or in the car. Each handy pack contains 3 black plastic stylus for your handheld.



\$28.00

Websearch CodeUSR115

Palm m100

Take control with the Palm™ m100 handheld.

Entry level handheld PC. 2MB memory, advanced LCD with backlight, Palm OS 3.5, Address Book, Date Book, Clock, To Do List, Memo Pad, Note Pad and Calculator. Infrared transfer - accept and transmit information from any other IR enabled Palm OS handheld. Product contents: Palm m100 handheld, HotSync cable, 2 AAA alkaline batteries, CD-ROM, Getting Started Guide, Stylus, Protective Flip cover.



\$249.00

Websearch CodeUSR153

Palm Vx

Lightweight and powerful connected organiser. Enhanced screen technology - easier to see at all angles/light. Weighs 113.4 grams, 8MB memory to store approximately 10,000 addresses, 3000 appointments, 3000 to-do items, 3,000 memos and 400 e-mails. Applications include Date Book, Address Book, Mail, To Do List, Memo Pad, Expense, Calculator, Security, Games and HotSync software. Includes HotSync cradle and battery recharger, Palm Desktop organiser software, handbook, getting started guide, DB-25 adapter, replaceable leather flip cover and infrared capability.



\$689.00

Websearch CodeUSR151

RentSmart \$7.55 pw

HP Jornada 565 Pocket PC

Sleek, expandable and versatile colour Pocket PC. 206MHz 32-bit Intel SA-1110 application processor, 32MB RAM, 103MHz memory data bus, TFT display (240x320 pixels), IrDA infrared, 1 x RS232 serial & 1 x USB port (slave), CompactFlash Type I extended card slot, AC input jack, stereo earphone jack, audio speaker and microphone, built-in voice recorder, digital audio player compatible, weighs 173 grams. Pen and touch interface (stylus included). Includes Microsoft Windows 2002 for Pocket PC plus more software.



HP Jornada 568 Pocket PC

Sleek, expandable and versatile colour Pocket PC. 206MHz 32-bit Intel SA-1110 application processor, 64MB RAM, 103MHz memory data bus, TFT display (240x320 pixels), IrDA infrared, 1 x RS232 serial & 1 x USB port (slave), CompactFlash Type I extended card slot, AC input jack, stereo earphone jack, audio speaker and microphone, built-in voice recorder, digital audio player compatible. Pen and touch interface (stylus included). Includes Microsoft Windows 2002 for Pocket PC plus more software.

JORNADA 565

\$1199.00

Websearch Code189288

RentSmart \$13.14 pw

JORNADA 568

\$1399.00

Websearch Code189230

RentSmart \$15.34 pw

Palm m105

Internet capable handheld PC. 8MB memory, advanced LCD with backlight, Palm OS software 3.5, Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator. Infrared transfer - accept & transmit information from any other IR enabled Palm OS handheld. Product contents: HotSync cradle, 2 AAA alkaline, CD-ROM (Palm Desktop Software for PC and Mac, Mobile Internet Kit. Link to Microsoft Outlook, AvantGo Software), Getting Started Guide, Stylus and Protective Flip cover.



\$349.00

Websearch CodeUSR500

Palm m500

Travel light. Expandable, Internet-capable.

Internet capable handheld PC. 8MB memory, advanced high contrast LCD with backlight, Palm OS software 4 (enhanced security and internet connectivity), Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator, Secure Digital Multimedia Card Expansion Slot and Universal Connector, Infrared transfer capability and vibrating and LED alarms. Product contents: USB HotSync cradle with battery charger, Palm Desktop software, Palm Mobile Connectivity software, Documents to Go 3, MGI PhotoSuite Mobile Edition, Avant Go, Pocket Mirror 3, Palm Reader, and Multimedia SE.



\$749.00

Websearch CodeUSR501

RentSmart \$8.21 pw

Palm m125 Handheld

Expandable and connectable handheld PC. 8MB memory - store more than 50 add-on applications (average size 50K). Advanced LCD with backlight. Palm OS software 4 - enhanced security and internet connectivity. Applications include Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator and HotSync mail, MultiMail SE, Avant Go Vinidgo, Palm Reader, MGI PhotoSuite, DataViz Documents To Go, Palm Mobile Connectivity Software. Includes Secure Digital Multimedia Card Expansion Slot and Universal Connector. Infrared transfer capability. USB HotSync cradle and Palm Desktop software included.



RentSmart \$2.13pw

\$565.00

Websearch CodeUSR505

Palm m505

Grow as your needs grow.

Internet capable handheld PC with colour display. 8MB memory, 16-bit colour display with backlight, Palm OS software 4 (enhanced security and internet connectivity), Address Book/Date Book/Clock/To Do List/Memo Pad/Note Pad/Calculator, Secure Digital Multimedia Card Expansion Slot and Universal Connector, Infrared transfer capability, and vibrating and LED alarms. Product contents: USB HotSync cradle with battery charger, Palm Desktop software, Palm Mobile Connectivity software, Documents to Go 3, MGI PhotoSuite Mobile Edition, Avant Go, Pocket Mirror 3, Palm Reader and Multimedia SE.



RentSmart \$10.40 pw

\$949.00

Websearch CodeUSR502

Toshiba Pocket PC e570

Uses a 206MHz Intel StrongARM Processor, the fastest available for Pocket PC applications, and the newest version of Microsoft's powerful and popular Pocket PC operating system. The CPU and the provision of 64MB of DRAM assure high speed processing of software optimised for the Pocket PC OS, including Pocket versions of Microsoft Word, Excel, Outlook, Internet Explorer and the Windows Media Player. Data synchronisation and downloads are a snap thanks to the supplied USB base-charger.



\$1249.00

Websearch Code189226

RentSmart \$13.98 pw

Click here to buy . . .

www.iswh.com.au



Compaq iPAQ Pocket PC H3850

Allows users to add CompactFlash memory cards and PC Card modems, among other accessories. Ships with a screen-cover sleeve, a welcome improvement over the black slipcover that comes with other iPAQs. Also, gamers will be glad to know that the buttons below the screen can now recognize two simultaneous button presses. This is vitally important when playing games that require you to move and fire at the same time. Clearly, the addition of the SD card slot and the more colourful screen make the iPAQ 3850 a compelling device.

Dimensions: 8.4cm x 1.6cm x 13.3cm

Weight: 200 grams

Memory: 32 MB flash

Warranty: 1 year warranty

Operating System: Microsoft Pocket PC 2002

Display: 3.8" TFT active matrix

RAM: 64 MB SDRAM

Processor: SA-1110 206 MHz Intel



RentSmart \$14.90 pw

\$1,359.00
Websearch Code ...COM201

Compaq iPAQ Pocket PC H3760

Slim and Powerful - Sleek, elegant design, brilliant colour TFT screen, fastest available processor. Expandable, Versatile - iPAQ Expansion Packs provide an extraordinary array of functionality. Forward-reaching - Pacesetting iPAQ Pocket PC showcasing Microsoft Pocket PC 2002. Designed to ride along on the voyage of life - in your pocket or mounted to your mountain bike. It's not much bigger than a calculator and comes standard with applications like Microsoft Pocket Word, Excel, Outlook, Internet Explorer, and Windows Media Player.

Dimensions (WxDxH): 8.4cm x 1.6cm x 13.0cm

Weight: 178g

Memory: 32 MB flash

Warranty: 1 year warranty

Operating System: Microsoft Pocket PC 2002

Display: 3.8" TFT active matrix

RAM: 64 MB SDRAM

Processor: SA-1110 206 MHz Intel



RentSmart \$11.62 pw

\$1060.00
Websearch Code ...COM200

eBookMan 901 Traveller

Read at night using the backlight or listen to music through the built-in speaker or headphone jack. Look up information on where to stay and what to see. Stores up to ten 400 page novels. Music Player supporting MP3, Digital Voice Recorder and eBook Reader all in one. 8MB with 64MB Flash card slot.



\$299.00
Websearch Code ...FRA001

eBookMan the MultiMedia PDA... carries your eNewspapers, reads books aloud, plays your favourite music files, synchronises to Microsoft Outlook, keeps you organised - even understands your handwriting. It's your Personal Digital Assistant!

TTQ-106 Pocket Speller & Thesaurus

• Ideal for Back to Business • Half a million synonyms • Phonetic spell corrector • Built-in French translator • Databank for names/phone numbers • Advanced calculator.



\$65.00
Websearch Code ...189297

Franklin®
Leaders in Portable Knowledge



eBookMan 911 Executive

16MB on-board memory upgradable with 64MB Flash cards. Built-in digital voice recorder. Listen to the latest voice books or music from your MP3 files while you drive, using the optional car adaptor. Music Player supporting MP3, Digital Voice Recorder and eBook Reader all in one. 64MB Flash card slot. 16MB on board. Backlight.

\$385.00
Websearch Code ...FRA002

HANDHELDS

Belkin USB Pocket Hub 4 port

Connect your PC or Mac computer instantly to your USB devices, including printers, scanners, external mice and keyboards, joysticks, digital cameras, or other USB hubs - without restarting your computer. An AC adaptor is included.



\$69.00
Websearch Code ...BEL160

Belkin FireWire PCI Card

Capture your world in digital video! The IEEE 1394 PCI Host Adaptor transforms the desktop PC into a DV-editing bay. With data transfer speeds up to 400Mbps, this IEEE 1394 (aka FireWire or i.LINK) innovation delivers lightning-quick video input and output.



\$129.00
Websearch Code ...BEL139

Belkin USB 4 port switch

This handy USB switch allows 4 computers to share one device ie printer etc or 1 computer to share 4 devices. All you need to do is touch the button on the front of the hub to switch between pcs or devices.



\$95.00
Websearch Code ...BEL181

COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!

Toshiba Satellite Series

Providing an attractively priced, truly comprehensive notebook. Ideal for small business or the home office, Satellite is fully equipped to help you power through your working day. With cutting edge technology and more power than you'll probably ever use, Satellite will become indispensable as your working companion. The multi-award winning Satellite Series continues to provide the business person who seeks value with all the power and functionality required for their day to day computing tasks. With a complete new lineup, the Satellite range now offers improved expansion capabilities, simpler user operation, the latest visual and sound technologies, as well as a great new look and feel.

Model 1800 shown



Model: 1800 (WIN ME)
Processor: Pentium III 850MHz with SpeedStep
Cache: 256KB Integrated Level 2
RAM: 64MB
HDD: Int 15GB EIDE HDD
CD-Rom: Int 8x DVD-Rom
FDD: Int 1.44MB 3.5" FDD
Modem: Integrated 56K V.90, 10/100 Base-TX
Display: 13.3" Colour TFT display at 1024 x 768 resolution
Ports: 2xPC Card slots supporting 2xType II or 1xType III, 1xSerial, 2xUSB, 1xParallel, 1xPS/2, External SVGA connector, infrared port, modem port, Mic & Headphone port
Weight: 3.2kg
OS: Windows ME
Warranty: 1 Year Parts & Labour

Model: 1800 (WIN XP HOME)
Processor: 1800 with Windows XP Home edition Intel Celeron 900 MHz
Cache: 128KB integrated L2 cache
RAM: 128MB SDRAM RAM (exp to 512MB)
HDD: Int 15GB EIDE HDD
CD-Rom: Int 24X CD-ROM
FDD: Int 3.5" 1.44MB FDD
Modem: Int 56K modem
Display: 13.3" colour TFT display at 1024x768 resolution
Ports: 2x PC card slots supporting 2xtype11 or 1xtype111, 2xUSB ports, 1xserial, 1xparallel, 1xps/2, tv out port, infrared port, modem port, Mic & headphone port
Weight: 3.2kg
OS: Windows XP Home
Warranty: 1 Year Parts & Labour

\$2935.00
Websearch Code...TOSH80

RentSmart \$28.79pw

\$2465.00
Websearch Code...TOSH95

RentSmart \$24.18 pw

Toshiba Satellite Pro Series

This is the perfect, no compromise, solution for business professionals. Satellite Pro is a feature driven notebook, packed with the latest technology. When your multimedia presentations have to be impressive. When your working environment extends beyond your office walls. Satellite Pro is the performance notebook for high performing individuals with a range of benefits such as:

- Simple expansion to connect to desktop based peripherals including those based on infrared, USB and CardBus systems
- Fantastic mobile multimedia performance with the graphics capabilities, sound processors and integrated speakers

Model: 4600/900
Processor: Pentium III 900MHz processor with SpeedStep
Cache: 256KB integrated Level 2
RAM: 128MB (expandable to 512MB)
Display: 14.1" colour active matrix TFT display, 1024 x 768 resolution
HDD: Triple spindle with 20GB HDD
CD-Rom: 8X DVD-ROM
FDD: 3.5" 1.44MB FDD
Modem: Integrated 56K V.90 modem, 10/100 Ethernet, Wireless LAN antenna (A Wireless LAN card is required for Wireless access)
Graphics: Trident CyberBlade XP, AGP integrated & 16MB Video SDRAM
Ports: 2 PC Card slots - 2x Type II or 1x Type III, 2x USB, RJ-11, RJ-45 1x serial, PS/2, 1x IrDA, 1x parallel, TV-out, External SVGA
Weight: 3.2kg
OS: Win 98 2nd Edition
Warranty: 1 year parts & labour

\$3395.00
Websearch Code...189302

RentSmart \$33.30 pw

Model: 4600/1GHz (WIN 98)
Processor: Pentium III 1GHz processor with SpeedStep
Cache: 256KB integrated Level 2
RAM: 128MB (expandable to 512MB)
Display: 14.1" colour active matrix TFT display, 1024 x 768 resolution
HDD: Triple spindle with 30GB HDD
CD-Rom: 8X DVD-ROM
FDD: 3.5" 1.44MB FDD
Modem: Integrated 56K V.90 modem, 10/100 Ethernet, Wireless LAN antenna (A Wireless LAN card is required for Wireless access)
Graphics: Trident CyberBlade XP, AGP integrated & 16MB Video SDRAM
Ports: 2x PC Card slots - 2x Type II OR 1x Type III, 2x USB, RJ-11, RJ-45 1x serial, PS/2, 1x IrDA, 1x parallel, TV-out, External SVGA
Weight: 3.2kg
OS: Win 98 2nd Edition
Warranty: 1 year parts & labour

\$3845.00
Websearch Code...189303

RentSmart \$37.71 pw

Model: 4600/1GHz (WIN 2000/NT4)
Processor: Pentium III 1GHz processor with SpeedStep
Cache: 256KB integrated Level 2
RAM: 128MB (expandable to 512MB)
Display: 14.1" colour active matrix TFT display, 1024 x 768 resolution
HDD: Triple spindle with 30GB HDD
CD-Rom: 8X DVD-ROM
FDD: 3.5" 1.44MB FDD
Modem: Integrated 56K V.90 modem, 10/100 Ethernet, Wireless LAN antenna (A Wireless LAN card is required for Wireless access)
Graphics: Trident CyberBlade XP, AGP integrated & 16MB Video SDRAM
Ports: 2x PC Card slots - 2x Type II OR 1x Type III, 2x USB, RJ-11, RJ-45 1x serial, PS/2, 1x IrDA, 1x parallel, TV-out, External SVGA
Weight: 3.2kg
OS: Win 2000/NT4
Warranty: 1 year parts & labour

\$4035.00
Websearch Code...189304

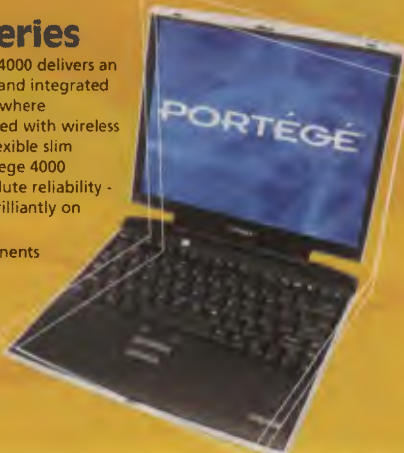
RentSmart \$37.71 pw

Toshiba Portege Series

Ready to work when you are, the Portege 4000 delivers an advanced combination of ultra-portability and integrated functionality. Uncompromised for take-anywhere computing, your investment is well protected with wireless communication, common docking and a flexible slim SelectBay™. Forged in magnesium, the Portege 4000 portrays vast success whilst delivering absolute reliability - just the qualities you require to perform brilliantly on the road and in the new world.

- One touch connection to Desktop components with optional advanced Port Replicator

Model 4000CT shown



Model: 4000 (WIN 98SE)
Processor: Pentium III 750MHz
Cache: 256KB
Memory: 128MB RAM (exp to 1GB)
Display: 12.1" TFT
HDD: 20GB HDD
CD-Rom: 8X SelectBay DVD
Modem: 56K modem
Network: 10/100 LAN, Wireless LAN, SD media slot
OS: Win 98SE
Warranty: 3 Year Parts & Labour

\$4645.00
Websearch Code...TOSH91

RentSmart \$43.41pw

4000 (WIN 2000)
Processor: Pentium III 750MHz
Cache: 256KB
Memory: 128MB RAM (exp to 1GB)
Display: 12.1" TFT
HDD: 20GB HDD
CD-Rom: 8X SelectBay DVD
Modem: 56K modem
Network: 10/100 LAN, Wireless LAN, SD media slot
OS: Win 2000
Warranty: 3 Year Parts & Labour

\$4799.00
Websearch Code...TOSH93

RentSmart \$44.85 pw

Click here to buy . . .

www.iswh.com.au



Belkin Bridge Koskin Bag

Made from stylish and durable Koskin material with all the quality amenities you would expect from a Belkin product including notebook and cellular compartments, business card and pen/pencil holders, and a diskette mesh pocket.



\$85.00

Websearch Code ...BEL171

Belkin Park Avenue Bag

The Park Ave is the ultimate notebook computer carrying case. It is constructed of top grain genuine nubuck leather known for its soft supple feel, and a steel frame laminated with high-density foam encasing the notebook compartment.



\$299.00

Websearch Code ...BEL172

Belkin Parkway Backpack

The Parkway offers a radical new design to the notebook carrying case. The unique, shoulder-to-waist carrying strap provides security, convenience and style while carrying a notebook computer.



\$109.00

Websearch Code ...BEL173

Canon BJC 55 Portable

The ultra-compact, portable BJC-55 Color Bubble Jet Printer is a true powerhouse, delivering all the features you need from a lightweight design and long-life battery to easy USB and wireless connectivity to produce impressive documents in the office or on the road.

- Weighs only 900 grams, including the battery
- High Speed up to 5.5 ppm
- USB



\$565.00

Websearch Code ...CAN318

RentSmart \$6.19 pw

Canon BJC 85

Use HALF your briefcase not half your desktop!

- USB connectivity
- Up to 5ppm in monochrome
- Up to 2ppm in colour
- 720 x 360 dpi
- Optional 4 colour printing
- Cordless printing
- Optional Colour image scanning



Now with USB

\$375.00

Websearch Code ...CAN287

NetComm TruConnect56 Combo PCMCIA

This convenient, high speed integrated Ethernet and modem PC card with built-in connectors uses a single PCMCIA slot for both your LAN and modem connection, making it the easiest, most cost-effective solution for mobile users. It supports modem speeds up to 56Kbps using either V.90 or K56flex standards.



\$435.00

Websearch Code ...NET187

D-Link PCMCIA 10/100

- 10/100Mbps dual speed NWAY interface
- Half/full duplex supported in 10Base-T mode
- Single RJ-45 shielded connector
 - UTP/STP cabling supported
 - Auto-correction of reverse polarity
- Passes IEEE 802.3 1500V high pot test
- Menu-driven network O.S. installation program
- Complete driver support

\$149.00

Websearch Code ...DLK018

FA410tx 10/100Mbps PCMCIA Network Card

- 10/100 Mbps Network Performance
- Guaranteed Compatibility
- Simple One-Step Installation
- 32 Bit Card Bus or 16 Bit PCMCIA compatibility



NETGEAR

\$149.00

Websearch Code ...BA1171

WinFax Pro 10.2

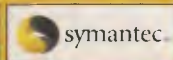
WinFax PRO 10.0 is the #1 choice for sending, receiving and managing faxes.* Easy to set up, learn and use. Integrates with your key business applications. Version 10.0 lets you send and forward faxes via email. When image clarity is vital, you also have the option of sending photo-quality faxes. For simplified project management, store faxes in the folders of your choice.

* Telephone connection needed.



\$125.00

Websearch Code ...SYM210



D-Link DFE-650TXD

Fast Ethernet 10/100 dual speed Nway PCMCIA Card with RJ-45 connectors, NO DONGLES, DIRECT PORT.

PCMCIA v2.x, PC Card 95 and JEDIA v4 x Type II support, Full Plug and Play, Full duplex supported, Auto-detects IRQ & I/O addresses, Netware, SCO Unix, WindowsNT Compatible.



\$145.00

Websearch Code ...DLK045



Belkin USB BusPort Mobile

- Add USB capabilities to your Notebook PC or Apple PowerBook quickly and easily
- Instantly connect USB devices such as USB printers, modems, speakers, digital cameras and scanners
- Supports 32-bit CardBus PC Card Type II Slot
- Provides 2 USB Type A ports
 - Easy drop-in and user friendly Plug-and-Play installation.



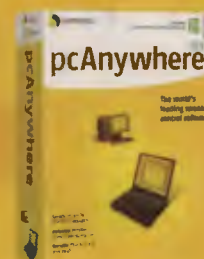
\$189.00

Websearch Code ...BEL129

pcAnywhere 10.5

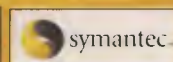
pcAnywhere™ is the No.1 seller for fast, easy access to any PC. If you need to work from home or on the road, pcAnywhere lets you connect to your office PC to retrieve files or run desktop applications. If you're an IT professional, pcAnywhere lets you remotely support users and manage servers effectively.

For Windows® 95/98/NT/2000/ME.



\$245.00

Websearch Code ...111085



COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!

UTILITIES

Norton Internet Security 1.0

Norton Internet Security for Mac 1.0 is the first Internet security suite to offer a comprehensive solution with protection against Internet threats such as hackers, privacy intrusion and viruses. Combines Norton Personal Firewall for Macintosh 1.0, Norton AntiVirus for Macintosh 7.0, and iClean by Aladdin Systems, a desktop cleaning tool that sweeps away Web surfing tracks.

Mac



\$135.00

Websearch Code: NOR224

Norton SystemWorks

This essential suite features the following: Norton Utilities helps you repair and optimise disks, recover lost data, and prevent future problems. Norton AntiVirus finds and repairs infected files to keep your data safe and secure. Aladdin Spring Cleaning safely removes old programs and Internet clutter. Dantz Retrospect Express Backup copies files quickly and easily to a wide range of removable media.

Mac



\$189.00

Websearch Code: NOR227

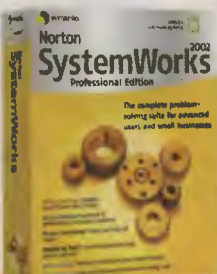
Norton SystemWorks 2002 Professional

The complete problem-solving suite for advanced users and small businesses.

The new one-button checkup makes system maintenance as easy as the click of a mouse. Norton AntiVirus™ 2002 is the world's leading anti-virus software. Norton Utilities™ 2002 optimizes your PC's performance. Norton CleanSweep™ 2002 cleans out Internet buildup. Norton Web Services™ - powered by ZDNet Updates - and Symantec Web Partners offer convenient online services. Norton Ghost™ 2002 provides fast system upgrading and backup. And WinFax™ Basic Edition lets you send, receive, and manage faxes. Now Windows NT® 2000, and Windows Millennium Edition users can also enjoy the benefits of Norton SystemWorks.

* \$40 rebate coupon in box for previous customers of Norton SystemWorks, Norton AntiVirus, Norton Utilities, Norton CrashGuard, Norton CleanSweep, Norton Ghost Personal, Norton Internet Security.

\$125
after
Upgrade
Rebate*



XP
Ready!

\$165.00

Websearch Code: NOR405

Norton SystemWorks 2002

The smartest way to keep your computer working!

- Norton AntiVirus 2002, the world's leading antivirus software.
- Norton Utilities 2002 keeps your hard drive organized efficiently, diagnoses and solves a wide range of Windows problems.
- Norton CleanSweep 2002 improves your PC's by safely and easily cleaning out Internet buildup and other unneeded files.
- Norton Web Services-powered by ZDNet Updates-gives you easy access to updates.
- Symantec Web Partners offer convenient access to a variety of online services for PC problem solving and system protection.

* \$30 rebate coupon in box for previous customers of Norton SystemWorks, Norton AntiVirus, Norton Utilities, Norton CrashGuard, Norton CleanSweep, Norton Internet Security.

\$95
after
Upgrade
Rebate*



XP
Ready!

\$125.00

Websearch Code: NOR406

Norton AntiVirus 2002

Don't let a virus ruin your day - and your valuable files! Protect your PC with the world's leading anti-virus software.

Norton AntiVirus 2002 - Provides PC users and small business owners, with complete Antivirus protection.

- Antivirus protection that is always up to date
- Auto-updating feature that will automatically sense an open Internet connection and check/retrieve any available updates for virus definitions
- Maximum protection from Internet and email viruses with a global response team of antivirus experts watching out for you
- Reduced size of downloadable files
- Bootable CD for emergency
- "Undo" Functionality to Boot Sector repairs



XP
Ready!

\$89.00

Websearch Code: NOR407

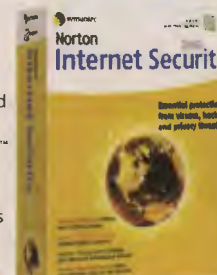
Norton Internet Security 2002

Norton Internet Security™ 2002 provides essential Internet protection for your home computer.

Norton Internet Security™ 2002 is your essential protection from viruses hackers and privacy threats. It scans and cleans both incoming and outgoing email updates itself automatically over the Internet and defends against script-based viruses such as "ILOveYou" and "Anna Kournikova" even between virus definition updates. Norton™ Personal Firewall blocks hackers' intrusions. Norton™ Privacy Control helps you keep email addresses and credit-card numbers secure and control which sites track your activities with Internet "cookies." Norton™ Parental Control keeps your children safe on the Internet. It includes a comprehensive customizable list of objectionable sites and lets you set up different Internet access privileges for each person in your household.

* 20 rebate coupon in box for previous customers of Norton InternetSecurity, Norton AntiVirus, Norton Personal Firewall or Norton SystemWorks.
* 5 user pricing available.

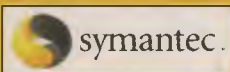
\$98
after
Upgrade
Rebate*



XP
Ready!

\$118.00

Websearch Code: NOR413



Back to Business bundle

The smartest way to keep your computer working

Keep hackers out and personal data in

Norton
SystemWorks
&
Norton
Personal Firewall

\$169.00

Websearch Code: 189376

Click here to buy . . .

www.iswh.com.au



Norton AntiVirus 2002 5 User Pack

Norton AntiVirus 2002 Multi-user pack provides essential virus protection for the small business to licence up to five workstations. It's always working in the background to protect your PC, and now it automatically updates its virus definitions when you're connected to the Internet. Don't let your company fall victim to viruses or other malicious Internet code.

\$265.00
For Windows*
2000/NT/ME/98/95
Workstations

Websearch Code: .NOR413



Norton AntiVirus 7.5 Small Business Solution for 10 Users

For small managed networks consisting of 1 server and up to 9 workstations, Norton AntiVirus 7.5 Small Business Solution for 10 Users, provides automated, centralised virus protection and management. Additional server or workstation licences may be purchased through the Symantec Value Licence Program. For Netware 3.13, 3.2, 4.11, 4.2, 5.X; WinNT v4/2000 Server; OS/2 client; DOS, Win3x; Win95/98; WinNT v4/2000 & Macintosh.

\$1199.00

Websearch Code: .189330



UTILITIES

Norton AntiVirus 7.0

Finds and repairs infected files, protecting against Macintosh viruses and macro viruses to keep your data safe and secure. Auto-matically scans email attachments for viruses. LiveUpdate™ technology provides easy updating of virus definitions over the Internet.



\$95.00

Websearch Code: .NOR220

pcAnywhere 10.5

pcAnywhere™ is the No.1 seller for fast, easy access to any PC. If you need to work from home or on the road, pcAnywhere lets you connect to your office PC to retrieve files or run desktop applications. If you're an IT professional, pcAnywhere lets you remotely support users and manage servers effectively. For Windows* 95/98/NT/2000/ME.

\$245.00

Websearch Code: .111085



pcAnywhere 10.5 Small Business Solution 5 Pack

Includes 1 remote and 5 host licences
pcAnywhere is a comprehensive remote control and file transfer solution for telecommuters and IS/IT professionals. Access up to five remote computers. pcAnywhere v10.5 offers extensive security measures to ensure remote control hosts are correctly configured for maximum protection. The many customizable features allow you to configure pcAnywhere to meet your needs.

\$479.00

Websearch Code: .111203

For Windows*
95/98/NT/2000/ME.



Corporate Licensing

Symantec Value License Program is the fastest and easiest way to license Symantec software. The certificate-based program provides attractive volume discounts, minimal paperwork, and a low minimum initial purchase of only 10 units (1 unit for server based products). No legal review or contracts are required - all you need is a purchase order. With the Symantec Value License Program, you simply purchase one retail or low-cost media pack from your reseller, and we supply a certificate authorising you to make one copy for each license purchased. It's that simple. And unlike many other software licenses that have a limited term, with Symantec once you've purchased your license, it's yours for life. Call 1300 300 003 to find out more.

Norton Personal Firewall 2002

Norton™ Personal Firewall 2002 is your maximum defense against hackers.

Monitors all Internet connections to and from your computer and alerts you to attempted intrusions-including port scans. Automatically block any system trying to probe your PC, as well as prevent personal data from being sent to web sites without your knowledge. Protect information such as credit cards or social security numbers from unsecured web sites.

\$85.00

Websearch Code: .NOR403



Norton Utilities 2002

Norton Utilities 2002 optimizes your PC's performance and solves system problems easily. Now Windows NT, Windows 2000 and Windows Millennium users can keep their PCs running at peak performance and fix recurring problems. It also diagnoses and solves a wide range of problems. Run Norton Utilities continuously in the background to detect potential disk and system problems.

\$95.00

Websearch Code: .NOR415



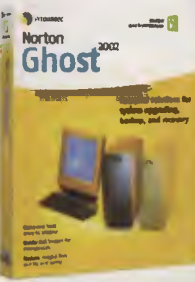
Norton Ghost 2002

Norton Ghost 2002 provides high-performance utilities for fast and safe system upgrading, backup, and recovery. This new version supports the Linux EXT2 file system, writes disk images directly to many popular CDR/RW drives, clones quickly from PC to PC, and enables Windows 2000 and Windows Millennium users to take advantage of its powerful tools.

• 5 user pricing available

\$135.00

Websearch Code: .NOR411



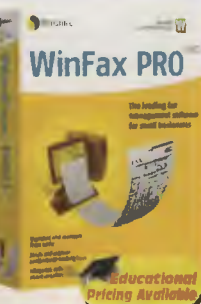
WinFax Pro 10.2

WinFax PRO 10.2 is the #1 choice for sending, receiving and managing faxes*. Easy to set up, learn and use. Integrates with your key business applications. Version 10.2 lets you send and forward faxes via email. When image clarity is vital, you also have the option of sending photo-quality faxes. For simplified project management, store faxes in the folders of your choice.

* Telephone connection needed.

\$125.00

Websearch Code: .SYM210



CleanSweep 2002

Clean out Internet buildup with award-winning Norton CleanSweep from Symantec. Thorough and reliable, Norton CleanSweep removes a wide array of nonessential items on your hard drive. A graphical interface and intuitive wizards make Norton CleanSweep as easy to use as it is thorough. Don't take risks with your computer - trust Norton CleanSweep 2002.

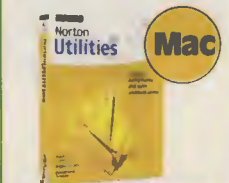
\$69.00

Websearch Code: .NOR409



Norton Utilities 6.0

Optimise performance and solve problems easily with Norton Utilities™. Disk Doctor™ finds and repairs disk problems. Speed Disk™ optimises your drive's performance, while UnErase™ and Volume Recover help restore lost files.



\$138.00

Websearch Code: .NOR221

COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!

STORAGE & UTILITIES

Lost & Found

Automatically recover and restore data after accidental (or even intentional) data loss, or from corrupted media. Recovers your files even after reformatting, as long as you have not written over them.



\$119.00

Websearch Code ...129364

DataKeeper

DataKeeper continuously monitors file activity in the background and makes compressed backups on the fly, keeping you protected. Featuring password protection and encryption, fault-tolerant backup sets, complete registry protection, continuous backup and monitoring.



\$75.00

Websearch Code ...POW035

DriveCopy 4.0

DriveCopy is the safest, easiest, and most affordable way to copy your old hard drive to your new hard drive without losing a single preference, setting, or byte of data. Connect both hard drives to your computer, and with a few simple steps, everything from your old hard drive is automatically copied to your new one.



\$99.00

Websearch Code ...POW046

VirusScan 6.0

Keep Hackers Out

McAfee VirusScan is the first anti-virus software that comes with an integrated personal firewall – an easy-to-use application that blocks hackers from gaining access to your system. McAfee VirusScan technology detects and removes all types of known viruses from any source including email attachments, Internet downloads, shared disks, CD Roms and even synchronization with your PDA



Standard

\$75.00

Websearch Code MCA080

Firewall 3.0

Get The Defense That Hackers Hate

Simply put, your PC is vulnerable without a firewall. A firewall prevents hackers from stealing your private information, blocks Trojan horses from taking control of your PC, and denies access to any number of dangerous intruders. McAfee Firewall makes it easy to put a protective barrier around your PC.



\$52.00

Websearch Code ...130679

VirusScan Pro 6.0

Every day you get online, you are exposed to more viruses and smarter hackers. For reliable protection, choose McAfee VirusScan Professional, a superior anti-virus product with even more features for comprehensive PC protection. Now you have one solution to eliminate viruses, quickly clean up your PC, permanently erase private information and more.



Professional

\$99.00

Websearch Code MCA077

QuickClean 2.0

Protect Your Privacy

Even when you empty your recycle bin, information about where you've been online and files you've recently deleted can be retrieved from your hard drive. However, with McAfee Shredder technology included, you can shred this information from your computer and cover your online tracks.



\$75.00

Websearch Code ...MCA081

McAfee Firewall

Internet Security 4.0

When you're online, your privacy is on the line. In today's highly wired environment, good anti-virus and firewall protection is essential for smart, safe computing. McAfee Internet Security is a comprehensive, easy-to-use, and automatic way to safeguard your PC, you, and your family from online threats. Install it for around-the-clock protection.



\$106.00

Websearch Code ...MCA079

PartitionMagic 7.0

PartitionMagic allows you to create, resize, merge and convert partitions on your hard drive without destroying data. Award-winning PartitionMagic is the world's leading hard-drive partitioning software for PC enthusiasts.

Features:

- Merge NTFS partitions
- Undelete a deleted partition from rescue disks
- Support for Windows XP
- Partition hard drives as large as 80 GB
- Access and partition external USB drives

Other Powerful Features:

- Organize and protect the information on your hard drive
- Easy, step-by-step wizards help you perform partitioning tasks
- Preview the effects of partitioning before implementing anything
- Safely manage multiple operating systems
- Convert from one file system or partition type to another without losing data
- Supports FAT, FAT32, NTFS, and Linux ext2/Swap file systems



Upgrade

\$99.00

Websearch Code ...POW071

Full Product

\$135.00

Websearch Code ...POW070

Drive Image 5.0

The important data on your computer is irreplaceable. But these days you're not really sure how safe it is. Be certain with PowerQuest's Drive Image 5.0 - the easy answer for protecting all the valuable data on your hard drive, including disaster recovery and backup for system upgrades.

- QuickImage Windows interface which lets you schedule regular, automatic backups of your entire hard drive or individual partitions.
- PowerQuest DataKeeper for constant monitoring and automatic file backup.
- SmartSector technology to reduce the time it takes to create and restore data.



Upgrade

\$99.00

Websearch Code ...POW055

Full Product

\$135.00

Websearch Code ...POW056

DeployCenter 5.0

PowerQuest DeployCenter 5 (formerly Drive Image Pro) offers simplified system deployment and upgrades. Deploying or upgrading computer systems can be extremely time consuming and costly. DeployCenter lets you take care of these critical issues to help ensure your organisations success?

- Remotely manage multiple clients
- Deploy or upgrade Windows workstations
- Create a standard, customized work environment for faster deployment of new computers
- Easily introduce new systems to the network
- Automatically distribute and install new software or upgrades



Upgrade 10 User

\$185.00

Websearch Code ...POW073

10 User

\$399.00

Websearch Code ...189215

Click here to buy . . .

www.iswh.com.au



AlphaShield - Internet Privacy Protection Revolutionary Hardware - Triple Privacy Protection

• For Broadband Cable, DSL, ISDN & Wireless • For Home / SOHO

Stealth IP Technology

Conceals your computer's identity from being visible on the internet, allowing you to surf securely.

RPA™ Technology

Real-time Packet Authorization Technology uses an Artificial Intelligent Infrastructure to monitor inbound and outbound data. Without any delay, each packet of information is inspected and allowed access only to authorized addresses.

AlphaCap™ Technology (2 levels of Gap)

Seamless Intelligent Disconnection / Reconnection process. 1) Logical Gap – monitors and only allows user requested information to get through to your computer. 2) Physical Gap – completely disconnects computer from Internet while modem connection to ISP is still active.



World's first maintenance free Internet privacy protection device.
Free Technical Support 5 year Limited Warranty (with registration)



- 1 Open box.
- 2 Plug in your AlphaShield™
- 3 Surf the Internet securely.

Additional Benefits

- Platform Independent
- 24/7 Protection
- Not affected by virus
- No patches or upgrades required
- Stops DDoS attacks
- Does not affect system performance
- Plug and play
- No conflicts with Firewalls or Routers
- Supports Up to 10 PCs

The #1 threat today is identity theft
Firewall and anti-virus software are not enough!

\$385.00
Websearch Code ...AL5050



BEST NEW TECHNOLOGY – Gartner Award, 2001
BEST PRODUCT: ESOLUTIONS – Gartner Award, 2001
BEST NEW INTERNET HARDWARE – Latin Channel, 2001
BEST HARDWARE – Latin Channel, 2001

ALPHA SHIELD

SECURITY & ANTI-VIRUS

Belkin CD Launcher

Write liner notes or anything you please while adding your custom designs or clip-art images provided on the software. Also import backgrounds from the Web. Design your own CD labels and jewel case inserts.



\$29.00
Websearch Code ...BEL170

Belkin 4-Port FireWire Hub

Enjoy the speed, accuracy and ease of FireWire-enhanced connections. You'll maximise your use of ultra-fast disk, Zip and Optical drives, scanners, printers and other peripherals with the Belkin 4-Port FireWire Hub.



\$139.00
Websearch Code ...BEL169

Belkin SurgeMaster

Offers ultimate protection against power spikes or lightning to all equipment connected to the board. • \$10,000.00 connected equipment warranty. Also available is the SurgeMaster with Telephone line protection.

SurgeMaster with Telephone Line Protection shown.

Surge Protector
\$45.00
Websearch Code ...BEL175

Surge Protector Telephone
\$55.00
Websearch Code ...BEL176

Vet Anti-Virus Net Surfer Aussies make the best surfers!

Vet is one of the leading anti-virus products in the worldwide market, consistently performing well in independent tests.

- Complete virus prevention • Internet virus protection
- Unlimited Web upgrades/updates for 1 year
- Unlimited phone/email support for 1 year

\$85.00
Websearch CodeVET006

Vet Anti-Virus Premium Protection for your PC against an increasing rate of viruses.

However you use your computer, you need to safeguard against viruses. Protect your PC with Vet Premium. This offers you all the advantages of Vet Net Surfer with the additional benefit of mailed quarterly upgrades - delivered to your home or office. It is then our responsibility to remember that it's time to upgrade your anti-virus protection.

\$99.00
Websearch CodeVET007

Vet For NT Server & 5 Clients Protection for the Heart of your Network.

Viruses can also be spread alarmingly fast across networks so take advantage of Vet's superior protection for NT Server which offers excellent functionality for the systems administrator. Vet's email notification feature allows an email to be sent to the administrator when a virus attack occurs anywhere on the network.

\$645.00
Websearch Code129811



COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!



Kodak

- Featuring 2.2 megapixel resolution • 3X digital zoom and a convenient close-up mode • Share pictures over e-mail or for printing photo-quality prints up to 8"x10" • Comes ready to shoot with 8MB of internal memory • COMPACTFLASH expansion slot that lets you add additional memory • 1.8" LCD screen which lets you preview and review your shots • Win/Mac

\$549.00

Websearch CodeKOD087

RentSmart \$6.02 pw



SONY

- 1.3 Mega Pixel Memory Stick Digital Still CyberShot Camera with ACCCSPW Kit
- Featuring 3x precision digital zoom, high speed auto focus • ISO sensitivity setting
- Recording mode is selectable from JPEG, TIFF, GIF animation and MPEG Movie
- ACCCSPW Kit includes Rechargeable Battery, Battery Charger and Carry Case.

\$818.00

Websearch Code.....SONY21

RentSmart \$8.97pw



Kodak

- DX3600 offers 2.2 megapixel resolution • 6X zoom (2X optical, 3X digital) • (up to 18 x 24cm) on your inkjet printer • Built-in microphone/speaker lets you capture and review video with audio right on the camera • Connect to a Computer or TV and see your videos on a big screen (cable included) • 8MB of internal memory • COMPACTFLASH expansion slot • The Camera Dock also quickly and automatically recharges your camera's battery pack.

\$799.00

Websearch CodeKOD091

RentSmart \$8.76 pw



SONY

- 1.3 Megapixel Memory Stick Digital Still CyberShot Camera with ACCCSPW Kit • Designed as an easy-to-use point-and-shoot digital camera • 3x optical and 6x precision digital zoom • High speed auto focus • AF illuminator and ISO sensitivity • Recording mode is selectable from JPEG, TIFF, MPEG, text modes and clip motion.

ACCCSPW Kit includes Rechargeable Battery, Battery Charger and Carry Case.

\$935.00

Websearch Code.....SONY20

RentSmart \$10.25 pw



Kodak

- 3MP digital camera with the point and shoot simplicity • EasyShare DX3700 Digital Camera • 3.1 MP resolution for excellent picture quality up to 11" x 14" • Getting closer to the fun is easy with the 3x digital zoom • Realistic pictures up to 11" x 14" and never miss a shot with the internal picture memory!

\$799.00

Websearch CodeKOD093

RentSmart \$8.76 pw



SONY

- 2.1 Mega Pixel Memory Stick Digital Still CyberShot Camera with ACCCSPW Kit • Increase of resolution to 2.1 Mega Pixels • Offers a 3x optical zoom lens • 6x digital zoom • MPEG Movie EX and ISO sensitivity setting • AF illuminator that allows positive focus in the dark.

ACCCSPW Kit includes Rechargeable Battery, Battery Charger and Carry Case.

\$1035.00

Websearch Code.....SONY22

RentSmart \$11.35 pw



Kodak

- 3.1MP resolution • prints up to 11" x 14" • 6X zoom (2X optical and 3X digital) • Set your own color mode, ISO, and lighting exposure settings • COMPACTFLASH Card • Optional telephoto, wide-angle, and up-close lens attachments • KODAK EasyShare Camera Dock • Place your DX3900 in the dock, touch the button, and pictures are automatically sent.

\$1115.00

Websearch CodeKOD092

RentSmart \$12.22 pw



SONY

- 2.5" SwivelScreen LCD Monitor • 4MB Memory Mode
- Includes Analog Inputs, i.Link DV Interface • USB Terminal, and NightShot 0 Lux recording • 700x / 50x Selectable Digital zoom (25x Optical zoom) • Memory Stick Slot • USB Terminal • 2.5" LCD Monitor • InfoLITHIUM M series battery
- Analog/Digital Signal Conversion • Digital Program Editing • Electronic Super SteadyShot • Super NightShot • Super Laser Link • Automatic/Manual Focus • Automatic White Balance • Exposure Control • Automatic Gain Control • Fader Function • Digital Noise Reduction • Built-in Microphone.

\$1715.00

Websearch Code.....SONY23

RentSmart \$18.80 pw



Kodak

- 1.3MP resolution for great prints up to 5" x 7" • A 4X zoom (2X optical and 2X digital) • With 8MB of internal memory, you'll never miss a shot • MultiMediaCard/ Secure Digital memory (MMC/SD) expansion slot • Simply place your DX3215 in the dock, touch the button, and pictures are automatically sent to your computer ready for e-mailing and printing • The Camera Dock will also recharge your camera's battery pack.

\$459.00

Websearch CodeKOD090

A Ultra Glossy 15 x 270 GSM

B Satin 15x220 GSM

C Premium 50x220 GSM

Kodak

A \$24.95

Websearch Code.....189300

B \$15.95

Websearch Code.....189301

C \$34.95

Websearch Code130339

Kodak Picture Paper

Click here to buy . . .

www.iswh.com.au



Jenoptik JD 3300 z3

The JD3300 z3 camera from Jenoptik offers exceptional quality, performance and value. Awarded **"BEST BUY"** by Which Camera? Digital (Oct.2001) who said the JD3300z3 "offers superb value for money" and "probably the best value 3MP camera around".

Major features of this true 3.3 MegaPixel camera include a 3x optical aspherical zoom lens, 1.8" colour TFT LCD display, auto focus macro (close-up) facility, manual focusing, exposure compensation and video output (directly to TV/VCR).

Interfacing includes a Compact Flash expansion slot, USB support, MAC & PC compatibility. The camera is supplied complete with accessories, case, cables, batteries, image editing software and Jenoptik's exceptional

2-year replacement guarantee.

FREE
32MB Compact
Flash Card

\$985.00
Websearch Code ...130943

Jenoptik JD-4100z3

New 4.1 Mega-Pixel Digital Still Camera

This exceptional 4.1 Mega-Pixels digital camera offers enough resolution to do 8x10" quality photographic prints or even larger ink-jet prints.

With its 3x optical aspherical zoom lens, 1.8" colour TFT LCD display, auto focus macro (close-up) facility, manual focusing, exposure compensation and many more features, it certainly offer impressive value for money...and it looks smart too!

The JD4100z3 also offers video output so your images can be viewed directly on your TV. Interfacing includes a Compact Flash slot, USB support, MAC and PC compatibility. The camera is supplied complete with accessories, case, cables, batteries, image editing software and the exceptional Jenoptik

2-year replacement guarantee.

FREE
32MB Compact
Flash Card

\$1135.00
Websearch Code ...130943

DIGITALS, SCAN, PRINT & FAX

Kodak DC3200 Digital Camera

The DC3200 Digital Camera with its 1.0 MP resolution makes great prints up to 5" x 7":

- DC3200's 2X digital zoom
- Internal Memory
- 2MB internal memory and COMPACTFLASH Card compatibility
- Preview and review your pictures with the built-in LCD screen.



\$299.00
Websearch Code ...K02099

Avision AV820C

HIGH SPEED DOCUMENT SCANNERS

Avision's 820C is a quality colour document scanner, combining a flatbed and a built-in 50-page automatic document feeder. It's construction and design are far more robust than the typical add-on feeder for consumer flatbed scanners. The 820C also offers a high scanning speed of 20 pages per minute. The Avision 820C comes complete with a SCSI interface card, OCR software and Papercom document management software.



\$2449.00
Websearch Code ...P00541
RentSmart \$24.02 pw

Microtek Artix 4000t

MICROTEK's ARTIX 4000 sets a new standard for 35mm slide scanning. 4,000 dpi optical resolution enables high levels of enlargement.

- Dedicated slide scanner to get the best sharpness and detail from 35mm slides.
- Scans both negatives and SLIDES (positives), mounted or in strips. APS optional.
- Same user interface as Microtek flatbed scanners.
- Dynamic range: 3.4
- Auto-focus, 1 pass, Ultra-fast.
- SCSI 2 interface supplied.
- Win/Mac.



\$2345.00
Websearch Code ...189296
RentSmart \$23.00pw

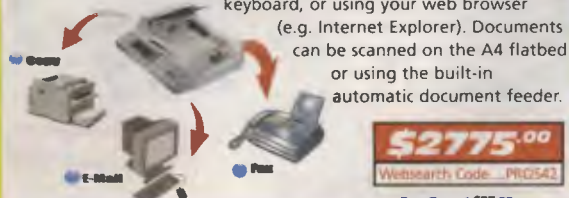
Avision @V2000 NetDeliver

@V2000 Multi-Function Network Scanner
... scan to printer, fax, e-mail.

Connected to an Ethernet network and an SMTP server, the @V2000 allows you to transmit documents via **e-mail**. With a touch of the e-mail button and the selection of your recipient's e-mail address, the documents are scanned into an image file, then transmitted to remote recipient(s) in TIFF, JPEG or PDF format.

Connected to a printer, the @V2000 **turns your printer into a digital copier**. With an intuitive control panel (and detachable compact keyboard), making digital copies becomes fast and very easy. A built-in **fax** modem enables direct fax transmission.

The @V2000 can be administered from it's own LCD display & keyboard, or using your web browser (e.g. Internet Explorer). Documents can be scanned on the A4 flatbed or using the built-in automatic document feeder.



\$2775.00
Websearch Code ...P00542
RentSmart \$27.22 pw

Compact Flash Memory

"Top quality Jenoptik brand - suits all brands of Digital Cameras and PDAs using the Compact Flash standard".



64MB
128MB
256MB

\$108.00
Websearch Code ...189291
\$165.00
Websearch Code ...189292
\$345.00
Websearch Code ...189293

QuickLink OCR Pen

The QuickLink Pen will scan in up to 1000 pages of text, that can be quickly transferred to your PC, Palm Pilot or text enabled cellular phone.

Features:

- Capture printed data, transmit it to your mobile phone and fax it or send it as an SMS message
- Transfer printed tables, schedules and charts directly to any spreadsheet application including MS Excel.



QuickLink
\$349.00
Websearch Code ...W02001

COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!

PRINTERS

EPL-5700L

The ideal laser printing solution for small business and home offices, as well as for personal use in large companies. It gives you exactly what you want from a laser printer - high quality - with highly detailed 1200 dpi class resolution. Plus quick 8 ppm output, convenient operation and a USB interface for compatibility with both Windows and Mac computers.



EPSON

\$575.00

Websearch Code ...EPL001

RentSmart \$6.30 pw

EPL-5800

10 ppm personal desktop laser printer with 1200 dpi high-quality output. 10ppm print speed, advanced printer control language and standard 16Mb of RAM, (exp. to 256Mb) for fast processing speed. Optional network card for connecting directly to a network. Has USB interface and bi-directional parallel interface that provides high-speed data transfer with one quick connection. Win98 and Mac OS 8.1 or later.



EPSON

\$725.00

Websearch Code ...EPL003

RentSmart \$7.95 pw

Epson USB to Parallel Cable

Cable for use with:

- Epson Stylus Colour 440/640/600/800/850/1520/3000
- Epson Stylus Photo 700/Photo EX
- Mac only

EPSON

\$155.00

Websearch Code ...EP5449

Stylus C20UX

The Easy-To-Use Home Colour Printer

Professional-level colour printing technology and quality in an easy-to-use printer. The STYLUS C20UX delivers image clarity and text sharpness with 720 dpi (dots per inch) printing resolution; and with EPSON's Ultra Micro Dot and Variable-Sized Droplet technologies, documents, photos, school projects and even original T-shirt transfers are printed just as you expect them.



With the STYLUS C20UX, EPSON's key inkjet differentiator - the EPSON PerfectPicture Imaging System - provides:

- MicroPiezo print head technology,
- Quick-Dry inks,
- AcuPhoto Halftoning, and
- EPSON Specialty Media.

\$129.00

Websearch Code ...EP5448

EPSON

Stylus C60

It is a fact. If you want affordable, quality printing then you need an affordable, quality printer. Quality is precisely what you get. From the amazingly fast printing, to the print driver that is fun to use, right through to the fast, colourful and amazingly fine detailed prints, everything about this printer spells quality. Fast 12 ppm* for black text. Vibrant Superb and accurate colour printing with a four-colour ink system. Precise Super fine detailed printing with up to 2880 dpi, MicroPiezo Print Head and 4pl Variable Sized Droplet Technology. Intellidye ink system. Designed to work perfectly with the printer and media to ensure you get the very best print quality and trouble-free, peace-of-mind printing, every print, every time.



EPSON

\$285.00

Websearch Code ...EP5466

Stylus Colour C70

Fast 16 ppm inkjet printer for greater productivity in the world of business, printing is a serious matter. Presentations, financial reports, business correspondence - they all demand a printer that actually supports the importance of any document. With the EPSON STYLUS C70, total print dependability is the key. It's a dependability built on the printer's speed, intelligence, print durability and precision.



\$449.00

Websearch Code ...EP5467

Stylus Colour C80

The business inkjet printer with super-fast 20 ppm, high quality, durable printing. The EPSON STYLUS C80 represents a landmark in EPSON's award-winning SYLUS colour inkjet printers for serious business users. In a single printer, speed, precision, print durability and operational ease have been brought together, delivering a "no compromise" print solution.



\$630.00

Websearch Code ...EP5468

RentSmart \$6.91 pw

AcuLaser C2000P

- Colour Printing at 5ppm and B/W at 20ppm
- AcuLaser Colour Halftoning provides print resolution equivalent to 2400 dpi (defined print resolution: 600dpi).
- The main paper cassette holds 500 sheets
- Adobe Postscript 3
- 10/100Base T, Parallel interface
- Windows 95/98/2000



\$5695.00

Websearch Code ...EP5420

RentSmart \$51.91 pw

EPSON

Stylus C40UX

Optimum image detail and text sharpness with 1440 dpi resolution. With Ultra Micro Dot and Variable-Sized Droplet technologies, documents, photos and even T-shirt transfers are printed with incredible crispness and clarity.



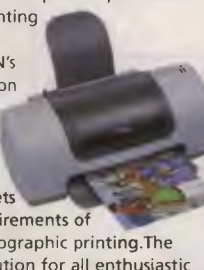
\$175.00

Websearch Code ...EP5447

EPSON

Stylus Photo 810

The STYLUS Photo 810 packs a powerful punch for any printing need. This printer comes with EPSON's photo manipulation software, PhotoQuicker 3.0, and together with the design specifications meets the exacting requirements of high quality photographic printing. The ideal printing solution for all enthusiastic photographers



\$385.00

Websearch Code ...EP5463

EPSON

Epson Stylus Photo 895

Enjoy the personal digital photo-lab experience right from your desk. Delivering up to 2880 x 720 dpi, six-colour, True BorderFree printing of your photos, either from your computer or standalone printing from data via your digital camera memory card.



\$740.00

Websearch Code ...EP5464

RentSmart \$8.11 pw

EPSON

Stylus Photo 1290

Exceptional speed, & can produce lightfast prints that retain their colour for over 10 years! With A3+ and more natural 6-colour printing at 2880 dpi and USB/Parallel interface

- Win/Mac



\$1075.00

Websearch Code ...EP5445

RentSmart \$11.78 pw

EPSON

Stylus Photo 2000P

Designed from the outset to produce professional quality photographic prints, the EPSON STYLUS PHOTO 2000P is ideal for professional photographers, graphic designers and amateur enthusiasts.

- Win/Mac



\$1949.00

Websearch Code ...EP5413

RentSmart \$21.36 pw

EPSON

Stylus Colour 1160

- A3 full bleed
- 1440 x 720 dpi
- 9.5ppm mono, 9.2ppm colour
- USB/Parallel interface
- Win/Mac



\$629.00

Websearch Code ...EP5293

RentSmart \$6.89 pw

EPSON

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www.iswh.com.au



Canon BJC 1000 SP

Outstanding operating Economy. Low purchase price plus Super Economy Mode in black & white and colour.

- Vivid colours, even on plain paper, plus optional high speed black & white.
- Crisp printing up to 720dpi.
- Fast, up to 4ppm in black.
- Up to 2400 pages in black/400 colour pages.
- Exceptional photographic quality. Photo Mode colour with standard inks optimised for plain paper, plus optional PhotoRealism to provide the gold standard in photographic reproduction.
- Parallel interface.
- Win.



\$129.00

Websearch Code.....CAN290

Canon

Canon BJC 2100 SP

A compact, portable high performance printer. Compact design with smart two-tone finish.

- 720 dpi resolution plus Drop Modulation Technology.
- 5 ppm black text & up to 2ppm colour.
- Image and photo optimiser.
- Photo Realism option.
- Now with parallel port for Windows 95/98/2000 & Nt 4.0 plus USB for Windows 98/2000 & Mac.



\$160.00

Websearch Code.....CAN301

Canon

PRINTERS & SCANNERS

Canon BJC 85

Uses half your briefcase not half your desktop!

- USB connectivity
- Up to 5ppm b/w, 2ppm colour
- 720 x 360 dpi
- Optional 4 colour printing
- Cordless printing
- Optional Colour image scanning



\$375.00

Websearch Code.....CAN287

Canon S600

- Four individual ink tanks with low-ink sensor
- Up to 15 ppm black / 10ppm color
- 2400 x 1200 dpi in color (38% greater than 2880 x 720 dpi) 8" x 10" photo in approx. 90 seconds on plain paper
- Advanced MicroFine Droplet Technology™ for exceptional photo-image quality
- Compatibility: Windows® 95/98/2000, Windows NT 4.0, Windows Me and Mac OS 8.1 or later.
- Parallel and USB.
- Image and photo optimiser.

\$535.00

Websearch Code.....CAN320

RentSmart \$5.86 pw

Canon



Canon BJC 55 Portable

The ultra-compact BJC-55 Color Bubble Jet Printer is a true powerhouse, delivering all the features you need from a lightweight design and long-life battery to easy USB and wireless connectivity - to produce impressive documents in the office or on the road.



\$565.00

Websearch Code.....189354

RentSmart \$6.19 pw

Canon N1240U

The World's First USB, Ultra-compact 1200 dpi Colour Scanner

- Amazing 1200 x 2400dpi optical with selectable resolution up to 9600dpi
- 42 bit input colour depth
- New Z-lid for scanning thick documents or books
- Front panel button and software for simple email, fax and copy operation
- Software for Windows & Mac including OmniPage and PhotoShop Elements



\$279.00

Websearch Code.....CAN503

Canon N640P

Whether it's for the home office or small office, the CanoScan FB640P is the perfect solution for all your scanning needs.

- Optical resolution is 600 by 1200 dpi with selectable resolution up to 9600 dpi.
- OmniPage OCR software and ArcSoft PhotoStudio 2000 image editing included.
- Minimal desktop space - revolutionary 39 mm thick design.
- Parallel interface • Win



\$145.00

Websearch Code.....CAN210

Canon S800

- 2400 x 1200 dpi, MicroFine Droplet Technology with 4 picolitre drops and New PhotoRealism 6 colour inks 1/6 the density of normal inks to produce up to 49 levels of colour gradation for long life and stunning photographic results
- Extremely accurate drop patterns & new star shaped nozzles to achieve reduced grain & image stability
- Separate ink tanks for each colour with level detection system for reduced operating costs



\$565.00

Websearch Code.....CAN500

RentSmart \$6.19 pw

Canon

Canon D1230U

- 1200 x 2400dpi optical res.
- 48 bit input and 42 bit output colour depth
- Superior optics for maximum image quality
- USB connection for Win 98/Me/2000 or Mac OS 8.5+
- Front panel push-button for simple e-mail, faxing and copying
- Includes Adobe PhotoShop LE and OmniPage Windows & Mac



\$395.00

Websearch Code.....130391

COMPUTER PRODUCTS AT ROCK BOTTOM PRICES!!!

PRINTERS

hp officejet t65

- Photo-Quality Colour Printing
- HP PhotoRet II
- Fast black and colour
- Colour Faxing
- One-touch buttons
- Speed dial feature
- Integrated OCR software
- Parallel interface
- Win



\$369.00

Websearch Code :HWP417

hp PSC 750

The HP PSC 750 is a versatile, flatbed printer, scanner and copier all-in-one. Create colour brochures, make copies of price lists, and scan photos to use in your promotional literature - all using one compact unit, right at your desktop.



\$599.00

Websearch Code :HWP418

RentSmart \$6.57 pw

hp officejet g85

HP's premium performance, all colour, flatbed printer/fax/scanner/copier all-in-one with automatic document feeder for your office.

- Scan to e-mail:
- scan anything directly into your e-mail or other applications with a single button push.



\$1199.00

Websearch Code :HWP005

RentSmart \$13.14pw

hp deskjet 656c

Add colour to your life with HP's easy and affordable colour printer

- prints up to 6 ppm black and 3 ppm colour
- photo-capable with optional hp photo print cartridge
- black/colour cartridges included
- brighter, more vivid colours with HP ColorSmart 3
- compact with fold-up paper tray
- USB connectivity for PC



\$138.00

Websearch Code :HWP440

hp deskjet 960c

HP's smart photo-quality colour printer that saves you time and money

- up to 2400 x 1200 dpi using premium photo paper
- HP ColorSmart 3 - optimises text, graphics and photos by automatically adjusting colour settings
- low-ink indicator ensure you never run out of ink while printing
- optional automatic two-sided printing



\$465.00

Websearch Code :HWP441

hp deskjet 948c

- up to 2400 x 1200 dpi using premium photo paper
- HP ColorSmart 3 - optimises text, graphics and photos by automatically adjusting colour settings
- create photo album pages easily with photo software - just drag and drop photos into template
- parallel and USB connectivity, even supports USB-connect Macintosh



\$369.00

Websearch Code :HWP403

hp deskjet 845c

Step up to HP's photo-quality printer that gives you true-to-original colours

- HP PhotoRet 2 colour layering technology delivers true-to-original colours
- crisp black text and photo-quality images
- up to 600 x 1200 dpi using premium photo paper
- no swapping ink cartridges to print outstanding photo-quality colour
- USB connectivity for PC and Macintosh



\$185.00

Websearch Code :HWP438

hp deskjet 350cbi

HP's robust and reliable mobile printer for professionals on the move

- Drop-tested and shock-tested
- High volume ink cartridges
- Fast, built-in recharging
- 30-page portable sheet feeder
- Wireless printing
- Mac and PC compatible



\$575.00

Websearch Code :HWP015

RentSmart \$6.30 pw

hp deskjet 990cxi

Good quality prints, and a host of useful features.

- Up to 17ppm black printing and 13ppm colour
- 2400x1200dpi on photo paper
- Two sided printing
- Infrared port for printing from mobile devices
- Parallel / USB interface
- Win/Mac



\$609.00

Websearch Code :HWP508

RentSmart \$6.68pw

hp deskjet 930c

HP's compact photo-quality colour inkjet printer

- 9ppm black, 7.5ppm colour
- PhotoRet 3, 2400 x 1200 dpi
- Get outstanding photo quality on any paper
- Great for offices with limited workspace
- Parallel / USB
- Win/Mac



\$275.00

Websearch Code :HWP435

hp deskjet 1125c

Print any size from postcards (A6) to posters (A3+).

- Up to 7ppm black and 5.5ppm colour
- HP ZoomSmart reduce or enlarge documents
- Booklet printing
- Two-sided printing
- HP PhotoRet 2
- USB interface
- Win/Mac



\$595.00

Websearch Code :HWP445

RentSmart \$6.52 pw

hp deskjet 1220c

The high performance wide-format inkjet printer for all business needs

- 11ppm black, 9.5ppm colour
- PhotoRet 3, 2400 x 1200 dpi
- Outstanding colour quality
- Full bleed A3+printing
- Parallel / USB interface
- Win/Mac



\$865.00

Websearch Code :HWP436

RentSmart \$9.48pw

HP LaserJet 1200 Series

All models have

- 1200 x 1200dpi
- 15ppm
- HP PCL 5e
- 250 sheet tray
- Parallel / USB interface
- Win/Mac



\$825.00

Websearch Code :HWP501

RentSmart \$9.04 pw



1200N - HP JetDirect Network Card, optional scanner/copier adaptor, 16mb std, 10/100 Base-T

\$1440.00

Websearch Code :HWP502

RentSmart \$15.78pw

HP LaserJet 2200 Series

All models have

- 1200dpi
- 18ppm
- 133MHz processor
- HP PCL 5e/6
- Parallel / USB
- Win/Mac



\$1645.00

Websearch Code :HWP503

RentSmart \$18.08 pw

2200D - 8MB 250 sheet tray parallel port

\$2195.00

Websearch Code :HWP504

RentSmart \$24.18 pw

2200DN - 8MB 250 sheet tray parallel port local talk

\$2795.00

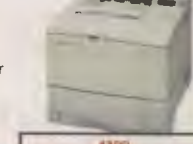
Websearch Code :HWP505

RentSmart \$27.41 pw

HP LaserJet 4100 Series

All models have

- 1200dpi
- 24ppm
- 250MHz processor
- HP PCL 5e/6
- PostScript Level 3 emulator



\$2385.00

Websearch Code :HWP511

RentSmart \$23.95pw

4100 - 16MB parallel port

\$3275.00

Websearch Code :HWP506

RentSmart \$32.12 pw

4100N - 32MB parallel port 10/100 Base-T

\$3775.00

Websearch Code :HWP507

RentSmart \$37.02 pw

4100TN - 32MB parallel port 10/100 Base-T

Includes extra 500 sheet paper tray.

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HP Inkjet Print Cartridge

HP Number 49 Tri-colour ink cartridge. High performance colour ink cartridge for DeskJet/DeskWriter 600 series. Also suitable for Officejet 590/635 printers. 22.8ml volume.



\$69.00

Websearch Code ...HP1007

HP Inkjet Print Cartridge

HP Number 15 black ink cartridge for DeskJet 810c, 812c, 840, 845, 845c, OfficeJet K60 and PSC 500 All-in-One. 495 pages at 5% coverage. Proprietary HP pigmented ink. High quality output on everyday paper.



\$62.00

Websearch Code ...HP1027

HP Bright White Inkjet paper

Versatile paper for colour printing on your HP DeskJet, DeskWriter and HP OfficeJet printers and HP CopyJet colour copiers.



\$29.95

Websearch Code ...189081

SCANNERS & SUPPLIES

HP scanjet 7450c

Featuring HP's exclusive new CCD scanning technology, the SJ7400c Series provides market-leading image quality with uncompromising speed. The office ready features make it easy to create impressive communications projects and manage business critical documents while saving time and resources.

- 2400 dpi optical
- Automatic document feeder, scan up to 15 ppm
- 48 bit colour
- Scan, copy, email, fax and file
- Scan 35mm slides and up to 5x5" transparencies
- SCSI & USB
- Supports Windows & Mac



\$1540.00

Websearch Code ...HP5050

RentSmart \$16.88 pw

HP scanjet 2200c

The HP Scanjet 200c colour scanner is a simple, complete solution - everything you need to start scanning today is in the box. Connecting to your USB - PC is a snap with the handy USB port. Exclusive software makes it easy to install - HP's scanning software guides you every step of the way.

- 600 x 1200 dpi hardware resolution
- 9600 dpi enhanced resolution operating system
- Microsoft® Windows® 98, 2000 Professional and Microsoft® Windows® Me
- Handy USB port makes connecting to your USB-PC easy



\$179.00

Websearch Code ...HP5049

HP scanjet 4400c

Make your old photos last forever. With the Scanjet 4400cse you can save old family photos, make digital scrapbooks and send them to your family via e-mail. It's easy to do, just press a single button to scan, e-mail, photo reprint, copy and more.

- 1200 x 1200 dpi hardware resolution
- Windows 95, 98, Me, NT 4.0 or 2000 professional.
- USB Connection: Microsoft Windows 98, Me, 2000 and Mac 8.6 - 9.1
- 1 year warranty



\$275.00

Websearch Code ...HP5051

HP scanjet 4470c

Release your creativity with the Scanjet 4470c. Save your prized photos and documents onto a CD with just one click. Make scanning easy and fun with the other one-button functions: scan, share to web, scan to e-mail, color copy, photo reprint.

- 1200 x 2400 dpi hardware resolution
- Scan 35mm negatives and slides with included Active Transparency Adapter
- USB/Parallel ports mean you can connect easily to your PC or Mac (USB cable included)



\$375.00

Websearch Code ...HP5053

HP scanjet 5400c

High-performance 2400dpi scanner for professional use. Make scanning easy and fun with the one-button functions: scan, share to web, scan to e-mail, color copy, photo reprint.

- 2400dpi optical, 2400 x 2400dpi hardware
- 8 sec previews
- 48-bit colour
- Includes USB & parallel cable and power cord.
- MS Windows 95/98/2000/Me/NT4.0 and Mac compatible



\$425.00

Websearch Code ...HP5054

HP scanjet 5470c

Your projects shine with the 5470cse color scanner. Scan 2400 dpi and 48 bit color. Get preview scans in 8 seconds. Save time with the optional 25 page Automatic Document Feeder. Eight one-touch buttons let you scan, e-mail, photo reprint and more.

- 2400 x 2400 dpi resolution
- Parallel Connection: MS Windows 95, 98, Me, NT 4.0 or 2000 professional.
- USB Connection: Microsoft Windows 98, Me, 2000 and Mac 8.6 - 9.1



\$559.00

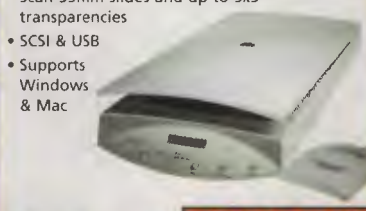
Websearch Code ...HP5055

RentSmart \$6.13 pw

HP scanjet 7400c

Featuring HP's exclusive new CCD scanning technology, the SJ7400c Series provides market-leading image quality with uncompromising speed. The office ready features make it easy to create impressive communications projects and manage business critical documents while saving time and resources.

- 2400 dpi optical
- 48 bit colour
- Scan, copy, email, fax and file
- Scan 35mm slides and up to 5x5" transparencies
- SCSI & USB
- Supports Windows & Mac



\$1045.00

Websearch Code ...HP5048

RentSmart \$11.45 pw

Opening Hours

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Pricing

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* See our Terms & Conditions on page 2.

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Epson Inks

Supp Code	Websearch	Ink	For Printer	Price
S020025	eps093	Black	400, 800, 1000	\$29.95
S020036	eps306	3 Colour	COL, Pro, Pro XL	\$65
S020047	eps036	Black	200, 820, COL II, II s	\$37
S020049	eps450	3 colour	820, 1500, COL II, II s	\$45
S020062	eps386	Black	1500	\$79
S020066	eps320	3 colour	PRO XL+	\$89
S020089	eps303	3 colour	400, 850, 860, 1520, COL 800	\$49.95
S020093	eps069	Black	COL 400, 500, 600, PHOTO, EX, 700	\$39.95
S020097	eps070	3 colour	200, COL 200, 500	\$49.95
S020108	eps304	Black	COL 800, 850, 1520	\$54
S020110	eps145	5 colour	PHOTO, EX, 700	\$48
S020118	eps166	Black	COL 3000	\$114
S020122	eps169	Yellow	COL 3000	\$114
S020126	eps168	Magenta	COL 3000	\$114
S020130	eps152	Cyan	COL 3000	\$114
S020138	eps314	4 colour	COL 300	\$35.95
S020187	eps334	Black	COL 440, 460, 640, 660, 670, PHOTO720, 1200	\$39.95
S020189	eps333	Black	COL 740, 760, 860, 1160	\$42.45
S020191	eps335	Colour	COL 440, 460, 640, 660, 670, 740, 760, 860, 1160	\$48.95
S020193	eps012	5 colour	PHOTO 720	\$49.95
T001011	eps374	5 colour	PHOTO 1200	\$58
T003091	eps352	Black	COLOR 900, 980	\$55.95
T005011	eps353	3 colour	COLOR 900, 980	\$78
T007091	eps404	Black	PHOTO 870, 890, 270, 1290	\$45
T008091	eps408	5 colour	PHOTO 870, 890	\$34.95
T009091	eps406	5 colour	PHOTO 1270, 1290	\$58
T013091	eps428	Black	COLOR 480, 580, C20UX, C40UX/SX	\$28.95
T014091	eps011	3 colour	COLOR 480, 580, C20UX, C40UX/SX	\$45
T015201	eps414	Black	PHOTO 2000P	\$62
T016201	eps415	5 Colour	PHOTO 2000P	\$78
T017201	eps423	Black	COLOR 680	\$55
T018201	eps424	3 colour	COLOR 680	\$52
T019201	eps433	Black	COLOR 880	\$62
T020201	eps434	3 colour	COLOR 880	\$52
Laser Cartridges				
S050010	eps349	Developer EPL-5700, 5700L, 5800		\$215
S051016	eps379	Single image EPL-5600, N1200		\$299
S050033	eps439	Dev., Black AL-C2000		\$135
S050034	eps440	Dev. Yellow AL-C2000		\$275
S050035	eps441	Dev. Magenta AL-C2000		\$275
S050036	eps442	Developer cartridge, Cyan AL-C2000		\$275

Epson Paper

Supp Code	Websearch	Paper	Sheets	Price
S041288	eps416	A3Glossy Photo 255gsm	20	\$84.95
S041285	eps001	A4 Glossy Photo 255gsm	20	\$38.95
S041154	eps341	Iron-On Transfer (A4)	10	\$29.00
S041260	eps003	Mat.Hevywght (A3) 67gsm	50	\$69.95
S041258	eps454	Mat.Hevywght (A4) 167gsm	50	\$27.95
S41145	eps002	Pan.Phot(210 x 594mm) 194gsm	10	\$27.95
S041142	eps372	Photo (A3) 194 gsm	20	\$52
S041140	eps321	Photo Paper (A4) 194 gsm	20	\$19.95
S041134	eps164	Photo 4 x 6 194 gsm	20	\$24.95
S041073	eps362	Photo Glossy Film (A3)	10	\$97.99
S041071	eps313	Photo Glossy Film (A4)	15	\$57.95
S041107	eps456	Photo Glossy Film (A6)	10	\$8.95
S041125	eps455	Photo Glossy (A3) 141 gsm	20	\$69.95
S041126	eps373	Photo Glossy (A4) 141 gsm	20	\$19.95
S041133	eps382	Photo Glossy (A3) 141 gsm	20	\$89.95
S041102	eps453	Photo Banner (A3+) 102 gsm	1	\$59.00
S041079	eps452	Photo Inkjet (A2) 102 gsm	30	\$58
S041068	eps385	Photo Inkjet (A3) 102 gsm	100	\$78
S041061	eps451	Photo Inkjet (A4) 102 gsm	100	\$29.95
S041069	eps139	Photo Inkjet (A3) 102 gsm	100	\$79.95
S041144	eps348	Photo Stickers (16/sheet)	5	\$15.95
S041302	eps429	Prem.Glossy Banner (100mm x 8m)	1	\$38
S041214	eps361	Premium Plain Paper (A4) 80 gsm	250	\$11.95
S041063	eps161	Transparency Film (A4)	30	\$89.95

Hewlett Packard Inks

Supp Code	Websearch	Ink	For Printer	Price
HP c4841a	HWP389	Cyan	2000 Professional InkJet Series	\$74.95
HP c4842a	HWP390	Yellow	2000 Professional InkJet Series	\$74.95
HP c4843a	HWP391	Magenta	2000 Professional InkJet Series	\$74.95
HP c4844a	HWP392	Black	2000/2500/2000 Pro/Bus InkJet Series	\$74.95
HP c6628a	HPI043	Black	DeskJet 350cbi	\$85
HP 51626a	HPI006	Black	DeskJet 400 & 500 Series, DeskWriter 500 Series	\$68.95
HP c6614d	HPI034	Black	DeskJet 600 Series	\$75
HP 51649a	HPI007	Tri-Colour	DeskJet 600 Series & 350cbi, OfficeJet 500/600/700 Series	\$75
HP 51629a	HPI008	Black	DeskJet 600 Series, OfficeJet 500, 600, 700 Series	\$68.95
HP c1823d	HPI025	Tri-Colour	DeskJet 700/800/1100 Series, OfficeJet t/r/Pro 1170 Series, PSC 500, ColorCopier 170	\$79.95
HP 51645a	HPI002	Black	DeskJet 700/800/900/1000/1100/1200/1600 Series, OfficeJet t/r/g/k/ Pro Series, PhotoSmart series	\$69.95
HP 51641a	HPI003	Tri-Colour	Inkjet Print Cartridge DeskJet 800 Series & 1000cxi, OfficeJet Pro 1150c	\$69.95
HP c6615d	HPI027	Black	DeskJet 800, OfficeJet k60, PSC 500	\$64.95
HP c6625a	HPI032	Tri-Colour	DeskJet 840c	\$74
HP c6578a	HPI038	Tri-Colour	DeskJet 900/1220 Series, Large OfficeJet g/k Series, ColorCopier 290, PhotoSmart p1000/p1200 Series	\$145
HP c6578d	HPI026	Tri-Colour	DeskJet 900/1220 Series, OfficeJet g/k Series, ColorCopier 290, PhotoSmart p1000/p1200 Series	\$79
HP C4149A	HWP466	Black	HP 8500/8550	\$259
HP C4150A	HWP467	Cyan	HP 8500/8550	\$399
HP C4151A	HWP469	Magenta	HP 8500/8550	\$399
HP C4152A	HWP510	Yellow	HP 8500/8550	\$399
HP C4092A	HWP001	2,500 Page Black Toner	HP LaserJet 1100	\$135
HP C7115A	HPI044	Black Toner	HP LJ 1200 Toner	\$135
HP C4096A	HWP002	5,000 Page Black Toner	HP LJ 2100/2200	\$210
HP C8061X	HPI045	10,000 Page Black Toner	HP LJ 4100	\$266
HP C3906A	AUC125	2,500 Page Black Toner	HP LJt 5L/6L/ 3100/3150	\$140
HP C4192A	HPI030	6,000 Page Cyan Toner	HP 4500	\$208
HP C4193A	HPI036	6,000 Page Magenta Toner	HP 4500	\$208
HP C4194A	HPI037	6,000 Page Yellow Toner	HP 4500	\$208
HP C4191A	HPI035	9,000 Page Black Toner	HP 4500	\$143

Hewlett Packard Paper

Supp Code	Websearch	Paper	Sheets	Price
C6832A	HWP006	HP A4 Premium Photo Glossy	20	\$29
C6951A	HWP007	HP A4 Premium Plus Photo Paper Matt	20	\$29.95
C6043A	HPP033	HP A4 Premium Photo Paper	15	\$25
C6945A	HWP008	HP 10x15cm Premium Plus Photo Paper Glossy	20	\$16.95
C3831A	HWP009	HP A4 Premium Glossy Paper f Djets,	10	\$21.95
C1856A	HPP037	HP A3 Premium Inkjet Paper	100	\$47.95
C6059A	HPP036	HP A3 Premium Photo Paper Size	20	\$59
C6045A	HPP035	HP Glossy Greeting Card	10	\$18.95

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MAUS Business Planning Pack

Includes: • Includes MAUS Masterplan & MAUS Project Planner + FREE Business Letters (RRP \$59.95)

The first 15 orders will receive a FREE Job Match Employee Assessment Report valued at \$175



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MAUS HR Toolkit

Includes: • Includes MAUS Performance Review • MAUS Job Descriptions and • MAUS Employee Manual with FREE Copy of Business Letters (RRP \$59.95) and FREE Online Assessment Report (Valued at \$175.50)

The first 20 orders will receive a FREE Business Letters & Job Match Employee Assessment Report valued at \$230.95



\$499.00
Websearch Code129879

BUSINESS

MAUS Job Descriptions

Create clear, concise job descriptions in minutes with this simple to use program. Choose from over 3,500 customisable job descriptions selectable by job title or industry. Use the question and answer format to address physical and educational requirements, work environment, qualifications and supervisory duties.



\$189.00
Websearch Code .MAU005



Performance Review

Start the New Year on the right foot with quality Performance Management Systems. At review time you can now create accurate and customized reviews in no time at all. This software package allows you to choose from dozens of performance criteria and then use the grading system to rank your employee in each area. The software will then support your ratings with clear text. Package also includes expert HR advice.



\$189.00
Websearch Code .MAU004



MasterPlan

Award Finalist in the Telstra Small Business Show Software awards
For people who need a winning, professional Business or Marketing Plan, MasterPlan's simple step-by-step question and answer format enables you to construct full financials, text and graphics in no time at all! Sample plans, real life examples and a unique financial wizard will ensure you prepare a perfect plan every time.



AWARD FINALIST
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Type Right

The fast new way to increase typing speed and accuracy. It takes you through the typing process step by step with fun tutorials and easy exercises. Best of all, this application is designed specifically for people who are using keyboards and computers so its approach is practical and relevant to today's office environment. Basic keyboard skills can be attained in 4-6 hours.



\$89.00
Websearch Code .MAU029

MAUS Employee Manual

Create a handbook encompassing all of your organisations policies and procedures. The application covers issues such as holiday entitlement, employee benefits, employment contracts, recruitment, termination and much more through a simple to use question and answer format.



\$189.00
Websearch Code .MAU011



Project Planner

Forget complicated project management software that is as difficult to understand as it is to operate, complete important activities on time and under budget with this user-friendly application which tracks costs, labour required, available resources and deadlines. View instant reports and graphs, including easy to use Gantt charts and actual vs Budget comparisons.



\$189.00
Websearch Code .MAU018



Customer Relationship Manager

Capture the right information from your customer, combine that with your sales information and analyse your database and formulate new strategies to direct more accurate and profitable campaigns. Accesses all data from MYOB, QuickBooks and ALL other major accounting packages.



\$249.00
Websearch Code .MAU027



Stockmarket Plus v4

MAUS Stockmarket Plus is an AWARD FINALIST in the Channel 9 small business show software awards and one of the biggest selling personal investment software tools in Australia. The application is a 4 in 1 Investment Software Tool. It handles shares, options, warrants, property, managed funds, fixed interest and a range of other investments with ease!



AWARD FINALIST
\$175.00
Websearch Code .MAU007

MAUS Health & Safety Planner

This application provides businesses with the necessary tools to develop an Occupational Health and Safety (OH & S) Management Plan. Avoid potentially costly employee litigation by improving safety standards and systems within your workplace.



\$189.00
Websearch Code129968

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Contains over 600 Marketing Letters Employee letters and Agreements, Legal letters and Agreements Business 2 business Letters Lead generation and relationship marketing letters.

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The complete business writing and reference tool for home offices and small businesses. It contains over 600 proforma and sample customer and supplier business letters, marketing and sales letters, business documents and forms, staff performance matrices, business agreements, employee agreements, legal letters, sample contracts and many more valuable tools.



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Monday to Friday
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Pricing

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Borland Delphi 6 Pro

Delphi is a powerful, high-productivity application development environment that makes next generation e-business development a snap. Delphi provides a full complement of powerful, standards based tools to control and deliver business data. The Delphi BizSnap Web Services development platform simplifies business-to-business (B2B) integration by easily creating industry-standard SOAP/XML Web Services and connections that seamlessly integrate your business with the applications of your customers and suppliers.

Key features

- WebSnap for fast Web application development
- DataSnap for integrated data-access solutions through Web Service enabled middleware
- Cross-platform Linux/Windows development with CLX
- Industry-standard compliance with SOAP, XML, WSDL, and XSL protocols
- Modern Windows 2000 user interface components for high productivity
- Integrate information into your applications with dbExpress, dbGo, and Borland Database Engine.
- Support for Access, DB2, dBase, FoxPro, InterBase, Informix, MS SQL, MySQL, MyBase, Oracle, Paradox, and Sybase



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Websearch Code ...BORD28

Full
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Websearch Code ...BORD29

Borland JBuilder 6 Pro

The leading Java database and Web development solution.

JBuilder is the leading cross-platform database and Web application development environment for the Java 2 platform. Rapidly build and deploy Web applications with servlets and JSP using JBuilder wizards and tools and the included Borland Enterprise Server, Web Edition. Maximize productivity with code refactoring, Javadoc tools, JDK switching, 250+ reusable JavaBeans with source, and advanced smart debugging. With presentation, transformation, and validation of XML documents, JBuilder helps you take full advantage of XML. Speed development of database applications with data-aware components and scalable database tools. Choose JBuilder 6 Professional for a flexible, open solution on Windows, Linux, Solaris, and Mac OS platforms.



Upgrade
\$935.00
Websearch Code ...189326

Full
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Websearch Code ...189325

Borland 2 Kylix Pro

Rapid application development for Linux.

Create powerful Linux, GUI, desktop database, and Apache Web applications with Borland Kylix 2, the rapid application development solution for the Linux platform. Kylix combines a high-performance compiler with a productive visual design environment, desktop database, and Web development tools to enable the rapid development of Linux applications. Incorporate local database information into your applications with high-speed database drivers for and MySQL and Borland InterBase. Combine Kylix with Borland Delphi, a leading RAD solution for Windows, to use one set of skills and one code base to develop cross-platform Linux/Windows applications.



Upgrade
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Websearch Code ...BORD32

Business Planner Professional

For people who need to create winning and comprehensive business or marketing plans. The program steps you through the complete planning process section by section, it includes an on-line help system, proforma templates to build your plan quickly, in-built spreadsheet facilities and functions to allow "What if" scenarios. It also has an in-built, spellchecker, and comprehensive glossary of business and planning terms and financial ratios.



Marketing & Sales Planner Professional

For people who need to create winning and comprehensive or marketing and sales plans. The program steps you through the complete planning process it includes an on-line help system, proforma templates to build your plan quickly, in-built spreadsheet functions and facilities to allow "What if" scenarios. It also has an in-built, spellchecker and comprehensive glossary of marketing and sales terms.



Human Resource Value Pack

Has been developed with the small business operator in mind. It contains Human Resource Manager a - comprehensive HR planning and operations manager showing businesses how to recruit, train, develop and improve staff, it also contains hundreds of employee letters, employee agreements, employee forms, staff performance matrices, performance and appraisal letters, hundreds of job descriptions and many more tools to meet the daily HR needs of the small businesses.



Sales and Marketing Value Pack

Contains the award winning Marketing and Sales Planner and is complimented with over a hundred sample Marketing Letters and over a hundred Lead Generation and Relationship Letters. It will help drive you marketing strategy and sales campaigns, allow you to build winning customer relationships and loyalty programs and give you many sales and marketing techniques and ideas to build your business.



Business Starter Value Pack

Has been developed especially for new startup businesses or established businesses that want to overhaul their business planning processes, policies and procedures as well as revamping their communications with staff, suppliers and customers. It contains the award winning Business Planner Professional and award winning Business Writer Professional - an essential tool for any start-up business or for any business wanting to overhaul its operations and procedures.



SOHO Super Value Pack

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Includes a wide range of sample plans with matching financials - you simply enter your figures where indicated to automatically generate impressive tables and colourful charts. A series of **Training presentations** illustrate relevant topics.

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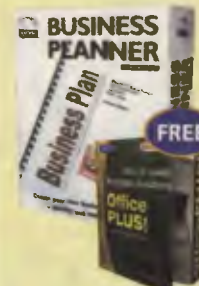
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Quality Manager - Database

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- Efficiently control a quality / business management system from your PC
- Reduce paperwork and administration time
- Integrate quality, safety, environmental and other systems

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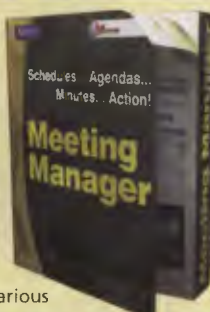


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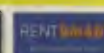
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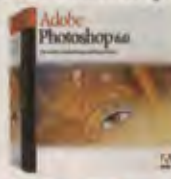
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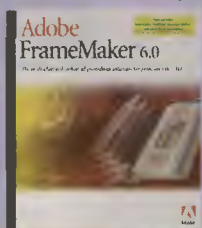
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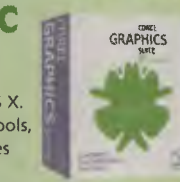
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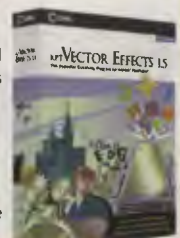
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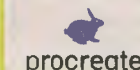
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PhotoImpact 7 is everything you need for digital photography, creative design and Web graphics.

- Quality Photo Enhancement
- Easy Photo Sharing
- Exclusive 3D Composition
- Interactive JavaScript Effects
- Advanced Camera Filters
- Extensive Raster & Vector Tools
- Complete Web Toolkit
- Visual Web Page Layout



Upgrade
\$149.00
Websearch Code ...130861

Full Product
\$245.00
Websearch Code ...130960

Ulead VideoStudio 5.0 DVD Edition

Movie-Making for Everyone

Introducing the FIRST easy-to-use video editor with DVD authoring capabilities: this special edition has all the perks of VideoStudio 5.0 PLUS the Ulead DVD Plug-in, letting you create VCD, SVCD or DVD format movies on CD-R/RW.



- Capture, edit and output high-quality video - NTSC (720x480) or PAL (720x576).
- Eliminate quality loss by retaining DV format throughout editing process

Quickly and easily capture video with Batch Capture and Automated Scene Detection (DV Only)

- 100+ Adjustable Effects & 30 Video Filters

Upgrade
\$215.00
Websearch Code ...ULE018

Full Product
\$335.00
Websearch Code ...ULE017

Ulead DVD MovieFactory

Easily Author Home Movies to CD or DVD Ulead®DVD MovieFactory™, with its simple wizard-style authoring process.

- Detect video scene changes and automatically create chapter thumbnails
- Batch convert video into high-quality DVD, VCD & SVCD-compliant files
- Add multiple movie clips to tell more stories
- Use ready-to-go templates to create scene menus for easy DVD navigation
- Personalize menus by adding your own images and music
- Burn to DVD media
- Burn to inexpensive CD media (for VCDs & SVCDs*)
- Use with CD-R/RW, DVD-R/RW, or DVD+R/RW drives
- Open completed projects (disc images) and re-burn at any time Play your movies on home DVD players and PCs with playback software
- Share movies on DVD or CD - disc media is easy to mail, play and is very durable



\$125.00
Websearch Code ...180073

Ulead COOL 3D 3.5

The COOLEST Way to Hot 3D Graphics! Ulead® COOL 3D™ 3.5 allows designers to create high-impact 3D images. Output these 3D images as still graphics, animated titles, video or Macromedia® Flash™ With COOL 3D 3.5, your text and shapes are easily customizable into eye-catching 3D.

- It only takes a couple of clicks to access many convenient features.
- Ulead COOL 3D's animation timeline is easy to use, yet powerful.
- Make your animation stand out with special effects you can drag-and-drop from the EasyPalette™. Making 3D objects for Macromedia® Flash™ just got easier!
- Output vector-based Flash with the new EnVector module, a bonus tool for Flash fans. It's easy to give your Web pages, video projects and PowerPoint® presentation projects a professional edge with COOL 3D.



\$185.00
Websearch Code ...130962

Ulead Photo Explorer 7.0

Digital Photography Software

Ulead Photo Explorer 7.0 is the complete solution for the digital photography enthusiast. Photo Explorer combines easy-to-use tools for acquiring, viewing, organizing, adjusting and sharing digital images and video clips.

- Acquire digital images from digital cameras, scanners or memory card readers
- Capture video clips from 1394 DV camcorders, PC cameras or video capture cards
- View images, hear audio and play video clips through an easy-to-use browser
- Make common adjustments and conversions to images and video clips
- Share images and video clips through printing, slide shows, e-mail and the web



\$95.00
Websearch Code ...130836

BUSINESS



Ulead VideoStudio 5.0 DV Combo Pack

Featuring VideoStudio 5.0 and a high performance IEEE-1394 Firewire Card. (PCI for desktop computers and CardBus Adapter for notebook computers). Also included are Photo Express 4.0 My Custom Edition, COOL 3D 3.0 Special Edition, Ulead Pick-a-Video Royalty-free Sample Clips & a 20% off coupon for the NEW Ulead Pick-a-Video Royalty-free Video Clips.



PCI
\$315.00
Websearch Code ...ULE020

PCMCIA
\$345.00
Websearch Code ...ULE021

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INTERNATIONAL SOFTWARE WAREHOUSE

EVERYTHING FOR YOUR PC - DELIVERED AUSTRALIA WIDE



STORAGE

Iomega® CD-RW USB 16x10x40 USB 2.0.

The Iomega External 16x10x40 CD-RW drive boasts higher speeds due to higher throughput of USB 2.0. This drive is also compatible with USB 1.1, which limits the drive speeds to 4x4x6. It includes all the hardware and industry-leading software you need to burn fast. Product also includes USB data cable, audio cable, external power supply, one CD-R disc, and quick install manual.



\$535.00
Websearch Code...IOM124

Iomega® Peerless Drive Disks for PC or Mac



IOM158	PEERLESS 10GB DISK PC	\$385.00
IOM159	PEERLESS 20GB DISK PC	\$485.00
IOM160	PEERLESS 10GB DISK MAC	\$385.00
IOM161	PEERLESS 20GB DISK MAC	\$475.00

Iomega Accessories

Media		
IOM007	250MB SINGLE ZIP DISK MAC	\$35.00
IOM107	PocketZip 10 PACK DISKS	\$215.00
IOM106	PocketZip 2 PACK DISKS	\$55.00
127208	JAZ 1GB DISK SINGLE PC	\$215.00
IOM119	JAZ 1GB SINGLE MAC DISK	\$199.00
IOM089	JAZ 2GB DISK 3 PACK PC	\$645.00
IOM006	JAZ 2GB DISK SINGLE MAC	\$185.00
IOM097	JAZ 2GB DISK SINGLE PC	\$235.00
IOM086	ZIP DISK 100MB MAC SINGLE	\$30.00
IOM030	ZIP DISK 100MB PC 10 PACK	\$199.00
IOM085	ZIP DISK 100MB PC SINGLE	\$29.00
IOM008	ZIP DISK 250MB 10 PACK MAC	\$255.00
IOM102	ZIP DISK 250MB 10 PACK FOR PC	\$255.00
IOM103	ZIP DISK 250MB SINGLE	\$30.00
IOM074	ZIP DISK 10 PACK MAC 100MB	\$199.00

Zip 250MB USB Host Powered

NEW - Zip™ 250MB USB host-powered drive

Now it's even easier to take your information with you. The Zip™ 250 USB drive is now available with a USB cable that provides both data and power, so you don't need any external power source. Powered by a USB cable, its easy to connect (just plug it in) and easy to launch (no rebooting). This new drive is compatible with most major operating systems and all Zip™ 100MB and 250MB Zip™ disks.



\$385.00
Websearch Code...111061

Zip 100MB Fast Start

With the simplicity and reliability of a Zip™ 100MB Parallel drive and a Zip™ 100MB disk included, there's no faster way to get started with Iomega!

Create, edit, share and back up your work or personal information with Zip. It is easy to use and operates just like a floppy. It allows you to effectively manage your work and large files like presentation material, graphics, architectural drawings, digital photos and music. It makes unlimited storage incredibly affordable.



\$249.00
Websearch Code...IOM162

Zip 100MB USB Host Powered

NEW - Slimline USB host-powered drive

The Universal Serial Bus (USB) technology is the emerging standard for connecting anything to your computer. This state-of-the-art interface makes good on the long-touted promise of simple plug-and-play capability, moving beyond traditional limitations and annoyances of the SCSI or parallel port interfaces. Now, USB-equipped Macintosh and PCs running Microsoft Windows 98 can begin utilizing USB advantages.

- Back up your hard drive
- Take your stuff with you
- Use it like a hard drive
- Great for multimedia
- Plug-and-play USB connection



\$195.00
Websearch Code...IOM151

Predator CD-RW Drive

You'll be armed and dangerous with the new Predator CD-RW external drive from Iomega. It gives you cutting edge digital audio and imaging capabilities, as well as great data backup. This stylish, portable device is simple to install and use. And it's simply the best looking external CD-RW on the market, period. Predator comes with a complete suite of FREE software including MusicMatch, that allows you extreme music fans to create and convert MP3s and rip CD's quickly and easily at drive speeds of 8X/4X/32X*. Let your Predator loose!



\$475.00
Websearch Code...IOM148

Predator 24x10x40

External USB 2.0 CD-RW drive boasts higher speeds due to higher throughput of USB 2.0. This drive is also compatible with USB 1.1, which limits the drive speeds to 4x4x6. It includes all the hardware and industry-leading software you need to easily and very quickly burn CDs. Comes with Iomega HotBurn CD mastering software, MusicMatch Jukebox, and Adobe ActiveShare for PC. Product also includes USB data cable, audio cable, external power supply, one CD-R disc, and quick install manual.

Note: This product does not include a hi-speed USB2.0 card necessary to achieve full 24x10x40 speeds. This card for the computer must be purchased separately or comes as part of the original computer hardware.



\$549.00
Websearch Code...189323

HipZip

Iomega™s premier digital audio player

- Built-in lithium ion battery, which produces 12 hours of continuous play off one charge
- Universal music file format allows for support of both free and copyright-protected content.
- Supports MP3 and the new Microsoft Windows Media audio formats
- High quality equalizer control system
- Drag and drop file transfer
- Fast USB connectivity
- Acts as external PocketZip drive
- Carrying case, headphones, USB cable, Two PocketZip 40 MB disks
- MusicMatch Jukebox CD Software

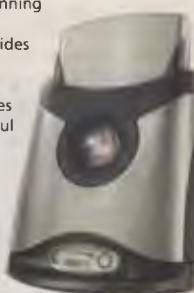


PRICE DROP WHILE STOCKS LAST!

\$245.00
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Peerless

The next generation in high-capacity removable storage. Iomega's Peerless™ drive system offers 10GB and 20GB disks, interchangeable interfaces, and 15MB/sec transfer rates for stunning performance. Slim, modular design provides reliability, speed and portability. Firewire® and USB 1.1 interfaces available. It's powerful enough to store all your files, fast enough to run applications straight from the drive, and versatile enough to go anywhere with you.



RentSmart \$11.13 pw

\$1015.00
Websearch Code IOM155

RentSmart \$10.95 pw

\$999.00
Websearch Code IOM157

Microdrive

Iomega's Microdrive 340MB and 1GB miniature removable drives provide high-performance storage for digicams, laptops, and PDAs. Enjoy the freedom of expanded storage capacity for a fraction of the price of flash memory cards. Perfect for capturing hundreds of photos, presentations, PDFs, spreadsheets, music and video. CF+ type II format. Includes \$130 Iomega coupon booklet.

- Fits virtually all CompactFlash™ ready digital devices.
- Get more megabytes of storage at a fraction of the cost.
- Fast data transfer speeds.
- Easy plug and play sharing between devices.
- PC card adapter is included.



RentSmart \$10.17 pw

\$465.00
Websearch Code IOM153

RentSmart \$10.17 pw

\$928.00
Websearch Code IOM152

Jaz 2GB

- Expand your storage capacity, 2GB at a time.
- Transfer rates up to 8MB/sec
- Run your entire computer and individual applications from a Jaz disk
- Store 2,000 photos (640 x 480 pixels) 30 hours MP3 audio, or 20-40 minutes of compressed video on one 2GB disk
- Backward compatible with Jaz 1GB disks
- Jaz products are used by professionals everywhere
- At around 1 kilo, the external Jaz 2GB drive allows you to take it with you wherever you go.
- Limited Stock



\$765.00
Websearch Code IOM083

Click here to buy . . .

www.iswh.com.au



Pinnacle Studio DV

With the Studio DV range you can take Hollywood home!

Pinnacle Studio DV and your creativity are all you need to turn your home movies into masterpieces. Studio DV is a complete solution combining award winning software with a DV/Firewire video capture board. The Pinnacle Studio software combines a simple, drag and drop interface with professional features like:

- Captures 1 hour of video in only 150MB of disk space (Smart Capture)
- Add titles, narration, transitions
- Movie of any length (no 2Gb production limit)
- Output to tape
- Frame capture
- Slow / Fast Motion (except the Clip version)
- Works with ALL DV / Digital 8 camcorders
- Includes Hollywood FX for Studio for fantastic 3D transitions (Studio DV ver7, Studio DV+ ver 7 only)
- Output to MPEG1/2, WEB, VCD, SVCD and DVD (Studio DV ver7, Studio DV+ ver 7 only)
- Output to VHS and SVHS (Studio DV + only)

Studio DV Clip
Studio DV hardware
and Studio 7 SE

\$275.00
Websearch Code ...PIN039

Studio DV ver 7
Studio DV hardware and
Studio 7 with HFX

\$365.00
Websearch Code ...PIN038

Studio DV + Studio DV
hardware with VHS/SVHS
output and Studio 7 with HFX

\$460.00
Websearch Code ...PIN037



MULTIMEDIA

Pinnacle Studio ONLINE

Share your video on the WEB!

Edit your videos using this USB to Video cable, add titles and sounds with the Studio software. Once finished, by the click of a button, upload your video to the Studio online web site and allow your friends and family to view them thanks to Microsoft Media technology (MPEG 4). No need for download then just click on the link and the video will be streamed to your desktop wherever and whenever.



\$179.00
Websearch Code ...PIN031

Pinnacle Studio VCD

Turn your PC into a Video CD Recording Station Studio VCD allows you to back up your videos up to 80 minutes onto a CDR or CD RW disc.

- PC or MAC
- DVD Player that can read DR/W
- Video CD players Studio VCD is your complete VCD creator
- MPEG 1 I/P real time encoder solution with separate CD writer application
- Easy to use trimming tool for recorded MPEG streams using a RealTime MPEG 1 encoder recording application
- PCI Capture card
- VHS & SVHS Inputs
- VCD Encoder
- Studio Demo CD
- Nero 5 Burning ROM



P PINNACLE SYSTEMS

\$209.00
Websearch Code ...PIN032

Pinnacle Express

Express is a new generation of software that will allow you to convert your home movies filmed onto a CD.

- Capture your video from your DV camcorder
- Create CDs or DVDs for your DVD player
- Detects each scene on your DV tape and create an interactive menu that can be customized
- up to one hour onto a CD at VHS quality (VCD), 1/2 Hour at SVHS quality (SVCD) or 15 minutes at DVD quality (mini DVD onto CD)
- Compatible with most DVD players (all JVCs and Philips are 100% certified) (incompatible with early DVD players that does not support CDR Media)
- Requires a CDRW or DVD R/W installed



\$129.00
Websearch Code ...PIN040

Pinnacle Studio 7

Simply the best movie-making software available today. Made by the same people who've won seven Emmy Awards creating video-editing gear for the Hollywood pros, Studio 7 lets you turn your home movies into Hollywood masterpieces. Now with Studio 7.0 software anyone with a FireWirecard or other PC video capture hardware can take advantage of it's great features to make amazing video. Software only.



P PINNACLE SYSTEMS

Upgrade
\$195.00
Websearch Code ...PIN036

Full Product
\$245.00
Websearch Code ...PIN035

Pinnacle Studio DC10+version 7

Pinnacle Studio DC10+ version 7 and your creativity are all you need to turn your home movies into masterpieces. Studio DC10+ version 7 is a complete Solution combining award winning Pinnacle Studio video editing software with a Hi 8 and VHS video capture and output board. The Pinnacle Studio software combines a simple, drag and drop interface with professional features like fast/slow motion, custom audio, over 100 transitions including Hollywood FX 3D effects, advanced color correction, contrast and brightness control, and more.



\$465.00
Websearch Code ...PIN042

Pinnacle DV 200

Pinnacle DV 200 the fastest DV editing card

- Firewire 3 port card
- Pinnacle DV2 Codec for near real time or instant editing (expendable technology)
- Export to VCD, SVCD, Web Streaming
- Adobe Premiere 6 Full version
- Adobe Photoshop LE
- Pinnacle Impression and Title Deko
- Hollywood FX Copper and Alpha Magic



P PINNACLE SYSTEMS

\$920.00
Websearch Code ...PIN041

DV500 PLUS - Gold Edition

DV500 PLUS is the ONLY real-time editing solution which takes advantage of features such as:

- Real-time multi-track audio mixer
- Real-time 16:9 widescreen effects, transitions and titles
- TitleDeko RT with video output for title creation previews
- Real-time image correction for colour and brightness controls
- Export to VCD and SVCD
- Adobe Premiere 6
- Adobe Photoshop LE
- Pinnacle Impression DC-Pro
- Pinnacle Hollywood FX Copper
- Pinnacle Hollywood FX Alpha Magic
- Pinnacle Instant Video Technology



P PINNACLE SYSTEMS

\$1799.00
Websearch Code ...PIN037

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STORAGE & UTILITIES

Encyclopaedia Britannica 2002 Expanded Edition DVD

Bring the world's best knowledge resource to your desktop with Encyclopaedia Britannica 2002 Expanded Edition DVD, the all-in-one resource featuring a comprehensive, highly visual encyclopedia plus dictionary and world atlas - all on one disc.



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Websearch MAC130994
Websearch WIN130947

Encyclopaedia Britannica 2002 Deluxe Edition CD-ROM

Bring the world's best knowledge resource to your desktop with Encyclopaedia Britannica 2002 Deluxe Edition CD-ROM, the all-in-one resource featuring a comprehensive, visually-enhanced encyclopedia, plus dictionary and world atlas. With Britannica's renowned knowledge index providing "intelligent search" capabilities, and a new and improved results display, get what you need - fast! New interactivities and "Knowledge Navigator" further enhance the learning experience.



\$169.00

Websearch Code130944

Maxtor

1394 External Storage

The easy way to add storage

The fast, easy way to add storage to your PC or Mac. With data transfer rates up to 30 times faster than USB and the highest capacity available, the 1394 External Storage solution is perfect for today's storage-hungry digital entertainment equipment. Just plug it in and go - it's ready to use right out of the box for PC users, and Mac users are just three simple clicks away.

Compatible with 1394, i.LINK and FireWire and powered by Maxtor's award-winning hard drive, it offers dependable storage/back-up for all your important documents and precious memories. Each easy to install 80 GB unit stores up to 20,000 MP3 tunes, 80 hours of compressed video or 8,000 digital pictures (10Mb / 3.3 Mpixels). Stack more than one of these ultra-sleek units for virtually unlimited storage.

Run applications, edit videos, listen to music, download files, or play games. Powered by Maxtor's award-winning hard drive, Maxtor's External Storage offers dependable storage/backup and work space for all your important documents and precious memories. Every Maxtor External Storage device is backed by unparalleled support, including our renowned No Quibble Service.



Add 80gb extra storage space!

80 GB or 40 GB

Designed for fast, easy storage upgrades
PC and Mac Compatible

FEATURES:

Easy installation

1394, i.LINK and FireWire compatible

Stackable ultra-sleek design

400 Mb/sec data transfer rate

Powered by Maxtor's award-winning hard drive

No Quibble Service and support

NTI Backup NOW!

power. control. reliability.



For Windows 95/98/Me



For Windows NT/2000

What if YOU lost EVERYTHING?

records - files - contacts - applications - games - photos - music - documents

You've only got 3 ways to protect your valuable data:

1. Don't use the computer
2. Don't use the internet
3. BACKUP NOW!

Backup NOW! is the most convenient and reliable way to backup all your important files to CD-R or CD-RW. Supporting a powerful array of options from full system backup to specific file backup, it is the perfect value addition to your existing or new CD Recording Bundle. With Backup NOW!, you can:

- Ultra-intuitive EasySteps™ user interface
- Selectively backup ALL your important data
- Span multiple discs for large backups
- Select between Image backup or Specific-File backup
- Compress your data (up to 1.2GB/CD!)
- Automatic Scheduler for unattended backup.
- Backup in-use system files, hidden files, and even the Windows Registry!



NTI CD-Maker 5.0 Professional



For Windows 95/98/ME/NT/2000/XP

CD-Maker 2000 delivers a comprehensive package that will serve all your audio, data, & video CD burning needs. Containing all the features of its predecessor, it includes an advanced feature set such as:

- Live Audio for real-time recording to CD
- Unlimited MP3 Encoding: Rip your CD's into MP3's
- Video CD Mastering
- Audio CD Text Support (supported drives only)
- "NTI JewelCase Maker" for creative design of CD Labels and Jewelcase Inserts
- "NTI Music Cafe" for digital audio playback, on-line CD database, and playlist management

One of the features of CD-Maker 2000 that's got everyone buzzing is its revolutionary LIVE Audio capabilities. With LIVE Audio, you can record ANY sound from the line-in or mic connectors of your sound card, and burn it REAL-TIME to CD. This is perfect for dictation, live music recording, or anywhere where you want to instantly burn sound to a CD. For you budding DJ's out there, you can even mix sound in REAL-TIME from multiple input sources.



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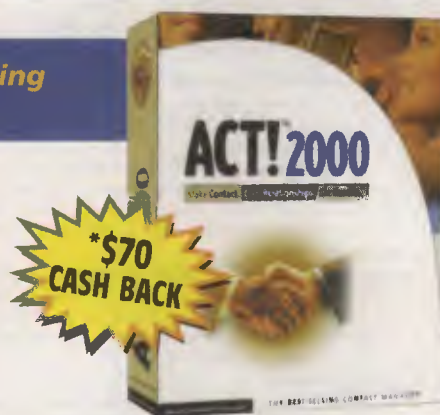
The ultimate tool for managing and growing your business relationships.



ACT!™

PC WORLD

World Class Award Winner for Best Contact Manager.



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Sell more with the easiest, best-selling contact manager

Created by salespeople for salespeople, ACT! thinks just like you do. Just install it and away you go! Forecast and track sales opportunities like never before! Even tap into the built-in sales tips and expertise offered by Dale Carnegie Training to help you close more sales.

Make your customers feel like they're the only one

When your customers call, they deserve the most personal attention. With ACT!, you can keep a complete history of every conversation, every activity - even meeting notes. Even attach proposals, emails, faxes, or memos right to their records so you'll be completely and instantly informed when they call.

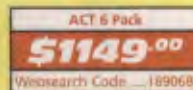
Keep important details from slipping through the cracks

See all of your appointments and tasks in a daily, weekly, or monthly calendar format. Then save information like driving directions and meeting agendas right to an appointment on your calendar. Set reminders and print your calendar - and you'll never forget a thing!

Reach contacts no matter where you are

Download your latest contact information - like names, numbers, and activities - from ACT! right into your Palm. Or use FoneSync to transfer up to 250 names and numbers to your cellular phone. So you can stay as effective on the road as you are in the office.

*Pricing after \$70 Rebate from Interact Commerce Corporation. \$70 Rebate is available for single user ACT! 2000 only. Refer to box for details. Offer ends March 31st, 2002. Conditions apply.



GOLDMINE 5.0

Gather, store, and manage information to increase sales and ensure customer satisfaction.

- Easy access to history and other account details puts the big picture on your small screen
- Organized, highly detailed contact management and tracking helps you decrease the length of your sales cycle
- Use your Web site for instant data capture to service, identify and qualify prospects. Automatically import this information into GoldMine 5.0 to begin the follow-up process immediately.
- Rely on the automated marketing tool. Automated Processes to provide personalized and targeted messaging automatically, even when you are away from the office.
- Keep track of revenue streams and marketing effectiveness to help you focus on activities that increase your profit.

- Instantly view sales vs. quota analysis, call volume or completed activities in a graphical or numeric on-screen report.
- Automatically and logically link email to contact records.
- Store all incoming and outgoing mail in one central location.



\$339.00
Websearch Code.....GOL001

GOLDMINE Express

Powerful Contact and Calendar Management for individuals or workgroups of up to 4 users.

Calendar. Use the calendar to schedule calls, appointments and meetings. View calendars day week month or year to make the most of your time.

E-mail. The built in e-mail centre automatically links messages to the appropriate contact record. Also, set up rules to act as a virtual "personal assistants" by automatically filtering and filing incoming and outgoing messages.

Manage Contacts and Accounts. Manage every detail for every contact and always have information at your fingertips. Customisable views allow you to collect the information that meets your needs. For road warriors, GoldMine Express includes a synchronisation wizard to share information with Palm, Visor and windows CE devices.

Time tracking. Provides the ability to evaluate sales forecasts and review accounts.

Correspondence. The Document Management Centre can manage letters, faxes, e-mail templates and other important correspondence. Save even more time by setting up frequently used faxes, memos, and letters for one click printing



\$189.00
Websearch Code.....GOL002

CRM

MS Works Suite 2002

Combines five complete products, including the latest and complete version of Microsoft Word 2002, for one great value price. The Works Task Launcher brings all of these home software applications and online resources to you based on what task you need to get done. Works Suite is the easiest way to get and use all the software you really need for your home PC. Includes complete version of Word 2002 (upgradeable from Works), Works 6, Encarta Encyclopedia Standard 2002, Picture It! Photo 2002 and Money 2002 Standard.



\$189.00
Websearch Code.....131025

Microsoft Plus! for Windows XP

With Microsoft Plus! for Windows XP, you can personalize your computer experience like never before. Built exclusively to take advantage of the power of Windows XP, Microsoft Plus! delivers exciting new features for digital music, gaming, photos, and more.

Tailor your digital audio and video to your own tastes, challenge yourself with a variety of fun and exciting games, and customize the look and feel of your desktop with amazingly lifelike screen savers and images.



\$85.00
Websearch Code.....130919

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DATABASE

Microsoft IntelliMouse Optical

The IntelliEye optical sensor that tracks movement 1,500 times per second providing smooth and precise motion.



\$85.00

Websearch Code131013

Microsoft IntelliMouse Explorer

The new sensor scans the surface 1,500 times per second to accurately and crisply track the smallest motion.



\$95.00

Websearch Code130968

Microsoft Wireless IntelliMouse Explorer

IntelliEye optical technology and power-saving technology, offers unprecedented performance, accuracy and control.



\$149.00

Websearch CodeMSM010

Crystal Reports 8.5

Powerful Information Delivery for the Web

With Crystal Reports you can easily deliver rich, interactive content from virtually any data source, publish it to the Web, and integrate it within applications.

Powerful Content Creation

Crystal Reports allows you to create rich content from virtually any data source including XML, OLAP or relational. Add charts, drill-down, alerting, parameter prompts, and hyperlinks and turn reports into compelling, interactive documents or web content. And it's simple to deliver information the way you want in a variety of formats, including XML, DHTML, PDF, RTF and Microsoft Excel.

Flexible Developer Tools

Flexible developer tools for web and Windows developers, a royalty-free runtime license and comprehensive support for development languages makes Crystal Reports the essential reporting tool for database applications. Unleash the power of the Crystal Reports Report Engine through the Report Creation API and the Embeddable Crystal Reports 8.5 Designer Control, allowing your users to design reports from within your applications.

Web Publishing System

Rapidly deploy your reporting solution to the Web with our powerful new web publishing system for easy information sharing. As a special offer to retail customers, Crystal Reports Developer and Professional editions include 5 concurrent users of Crystal Enterprise Standard free. It is the fastest way to get your high-quality interactive Crystal reports out to thousands of users across the enterprise.

Standard

Design rich, interactive content, within a familiar Microsoft environment. Add-ins for Excel and Access make creating reports from existing Microsoft data a snap. Deliver content the way you want from the PC, to the enterprise and the Web in a variety of formats.

Professional

Deliver rich, interactive content from virtually any data source and publish it to the Web. Report alerts, parameter prompts over the Web, and export to a variety of formats including PDF, XML, RTF and DHTML provide additional content creation power. Rapidly deploy your reporting solution to the Web with our new web-based report management system.

Developer

Easily deliver rich, interactive content from virtually any data source, publish it to the Web, and integrate it within applications. Unleash the power through the Report Creation API and the Embeddable Crystal Reports 8.5 Designer Control, allowing your users to design reports from within your applications. Increase developer productivity with rapid application development tools like the Report Designer Component.

Standard
\$395.00
Websearch Code111165

Professional
\$745.00
Websearch Code111166

Developer
\$925.00
Websearch Code111168



Crystal Analysis Professional

Powerful analysis for the Web

Crystal Analysis Professional provides easy-to-use interactive high-speed analysis for Microsoft SQL Server (OLAP) Services. It makes multi-dimensional data easy to understand, use and deploy - opening the power of interactive analysis to all.

Crystal Analysis Professional allows end users to easily create snapshots of multi-dimensional OLAP data, stored in MS SQL Server Analysis (OLAP) Services, including rich visualization techniques such as charting, which are then compiled into Excel-style Briefing Books for guided navigation and can be deployed to the Web. It is designed for ease-of-use, with a point-and-click design environment, requiring that interactive report designers have some knowledge of the data but little else.

The result delivers better value to organisations, as more people will now be able to access information from multi-dimensional OLAP data, and gain better insights to help decision-makers impact business performance.

Guided-report analysis

Deliver interactive analytic reports with different cube views on each page and Analysis Buttons that guide you intuitively through various views of the data. For specific business needs, create information-rich analytic applications such as sales analysis, financial review and analysis, key performance indicator metrics, web log analysis and more.

Rich visualization objects

Design reports using a wide variety of visualization objects that enhance your interactivity of reports. Add user-defined calculations in any dimension with highlight exceptions and include a chart and text commentary to complete the picture.

Interactive Analysis over the Web

Zero-client analytic reports are fully interactive over the Web, allowing you to swap dimensions and views, sort and filter data, and add calculations in any dimension you choose - all within your browser.

Flexible and easy to use

Quickly and easily create interactive analytic reports. Provide a drag-and-drop design environment; page templates and powerful application exports that help you quickly create reports. Turning data into actionable information is quick and easy.

Complete control over OLAP data presentation. Build reports by dragging, dropping and sizing worksheets, charts, text, dimension explorers and/or groups on the screen. Customize and allocate as much or as little control over the view of the data as you want. Leverage the power of Microsoft SQL Server Analysis (OLAP) Services.

Powerful, scalable web delivery

Seamlessly integrates into Crystal Enterprise for enterprise scalability, so you can leverage the power of the Web to provide report access to all users, regardless of the platform or location.

Zero-client (DHTML) web deployment. Optimized for efficient distribution of interactive reports via corporate portal, intranet, extranet and Internet applications. No plug-ins, downloads or firewall issues.

Customized web desktop

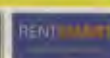
Customize ePortfolio, Crystal Enterprises' web client, to match your corporate identity or let your imagination run wild and create a completely custom interface. All you need is a browser.

As a special offer to retail customers, Crystal Analysis Professional includes a 5 concurrent access license for Crystal Enterprise Standard.

With Crystal Enterprise you can get interactive analytic reports out to thousands of users across the enterprise. It is web-based, customizable and scalable for the largest global organisation.



\$749.00
Websearch Code111204



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Dragon NaturallySpeaking Mobile v5

Now you don't need your laptop to create reports and presentations when you're on the move! Simply speak naturally into the palm-sized digital recorder whether you're sitting in a waiting room, riding in a cab from the airport, or commuting on the train. When you're at your PC, plug the recorder in, and the software transcribes your recorded speech automatically. With the included award-winning Dragon NaturallySpeaking Preferred v5 software, you can edit and format documents in virtually any Windows® application hands-free!



\$559.00
Websearch Code ...DRG001

Dragon NaturallySpeaking Preferred v5

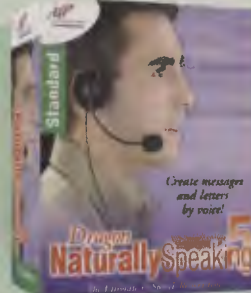
With Dragon NaturallySpeaking Preferred v5 you can create, edit, and revise documents and email - even surf the Web-entirely by voice. Just speak, and your words appear in business letters, reports, e-mails and virtually all Windows®-based applications. Dragon NaturallySpeaking Preferred makes it easy to edit and format text-even change fonts, colours, and sizes-by voice! Insert phrases and paragraphs with only a few words. Listen to text and email read aloud by replaying your recorded speech. You can even browse the Web-hands-free.



\$285.00
Websearch Code ...DRG002

Dragon NaturallySpeaking Standard v5

Why type when Dragon NaturallySpeaking Standard v5 lets you communicate with your PC in the most natural way - by speaking. In less than 5 minutes you can start writing reports, letters, and emails in virtually any Windows application - all with your voice! Change fonts and sizes, select words, fix paragraphs, and rewrite sentences without ever touching the keyboard. Forget about spell checks - Dragon NaturallySpeaking spells correctly every time. It's the fast, easy, and fun way to turn speech into text!



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OFFICE/APPS GRAPHICS

MS Flight Simulator 2002

One of the most popular, realistic and detailed flight simulators on the market, used by actual student pilots. With new aircraft. Pro version also available.



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Microsoft Age of Empires Collectors Edition

Includes full versions of ALL the games in the Age of Empire series.



\$109.00
Websearch Code ...MS5489

Microsoft Train Simulator

Experience the excitement of trains on your PC. Take the controls from the engineer's cab with 6,000 tons of freight behind you and exciting challenges ahead.



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Websearch Code ...130576

iGrafx FlowCharter 2000 Professional

iGrafx FlowCharter 2000 Professional from Micrografx gives you structured diagramming power with unique built-in intelligence, providing invaluable new ways to visualise solutions for real-world business problems. iGrafx FlowCharter makes it easier than ever to diagram business processes, networks, organisational structures, web content, and much more. Superior business-oriented functionality includes seamless Microsoft Office compatibility, robust HTML support, and powerful VBA 6.0 extensibility, as well as network-enabled application deployment, media management, and collaboration tools.



Full Product
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Everything you need for technical illustration, image editing and web graphics

Providing precision drawing and versatile publishing tools along with 55+ import/export filters including CAD, Adobe PDF and Macromedia Flash. Also included, Picture Publisher 9 is an innovative professional image-editing application with incredible visual effects and functionality.



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Websearch Code ...MGF121



Picture Publisher 10 Digital Camera Edition

Manage, correct, enhance, create, and publish your digital pictures quickly and effectively with Picture Publisher Digital Camera Edition - the perfect companion for your digital camera. Affordable yet powerful, Picture Publisher is ideal for small businesses and freelance artists that need to create high-impact graphics for print, presentations and the Web. As an essential component of any digital darkroom, you can use one-click macros to enhance and correct your pictures, apply one of many artistic special effects to turn your photo into a work of art or use PhotoAlbum to effectively manage, enhance and batch process your photos.



\$115.00
Websearch Code ...189281

Picture Publisher 10 Professional

Picture Publisher 10 Professional is the premier easy to use solution for professional image processing and management from start to finish. Enhance pictures using powerful editing tools or get creative with extensive special effects, wizards, and macros. Fully enabled 64 bit CMYK and 48 bit RGB image resolution support, alongside the Kodak Color Management System, ensures that your images are always of the highest quality. If you're publishing for to the Web, Picture Publisher has a complete toolset to optimize your images for your Web audience. Also included is the new PhotoAlbum, featuring helpful batching and indexing tools that make image management easier and faster.



\$315.00
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COMMUNICATIONS

10/100Mbps Fast Ethernet Adaptor

High-performance auto-sensing 32-bit 10/100Mbps Fast Ethernet LAN adaptor for desktop PC's. N-way auto-negotiation for automatic selection of the network speed and full/half duplex mode with the partner. Easy installation with a single RJ-45 port for either 10BASE-T or 100BASE-TX fast Ethernet support. Software drivers included for Win 95/98, Millennium, NT and 2000.



\$29.00

Websearch Code ...NET234

LAN Key USB 10/100 Adaptor

Logging on to a Local Area Network (LAN) has never been easier with this Plug-and-Play USB LAN Key from NetComm. There are no cases to open, dongles to break, PC Cards to swap or NIC cards to insert. Laptop users can keep both PC Card slots free and log on to any Ethernet 10 based-T or 100 Base-TX network via their USB port.



\$79.00

Websearch Code ...NET235

NetComm SmartModem56 Secure, dial-back remote access

The number one position in speed for data, fax and voice transfer with the combined security of DES encryption and password protection. Unique dial-back feature for secure remote access.



\$425.00

Websearch Code ...NET142

What's new at NetComm?

NetComm - Smart Sharing Solutions

Smart Access

Router, Hub and firewall all-in-one!

NetComm's SmartAccess is a Plug & Play network gateway which allows multiple PC users in a home, or office to network their systems, share Internet access and local resources safely, simply and easily. With the inclusion of a serial and Broadband port, it has the flexibility to support growing businesses, as there needs change. An analog modem can be connected to the serial port to provide dial-in remote network or dial-up ISP access. SmartAccess gives you easy-to-configure Internet firewall preventing unwelcome visitor access.

FREE 3 YEAR WARRANTY

Go to www.netcomm.com.au for details



\$339.00
Websearch Code ...NET231

Smart i-Share 56

Winner of the PC Authority Labs Award for Quality

The Smart Internet Sharing Solution! Smart i-Share is the Plug & Play networking and Internet access solution for wherever two or more PCs are gathered but not yet connected.

FREE USB LAN KEY*



*When ordering ask for your "Dream Deals" claim form and complete and return to NetComm for redemption of free product. Valid till 31st January 2002. Conditions apply.

FREE 3 YEAR WARRANTY
Go to www.netcomm.com.au for details

\$459.00
Websearch Code ...NET217

Choose the right NetComm Internet Gateway for your needs!

NetComm Product	CABLE/DSL modem (external)	Serial Port (external modem)	56K modem built-in	Embedded Linux	Four-port Ethernet Hub	Firewall	Produces 'always on' heartbeat
Smart i-Share		✓	✓	✓	✓	✓	
SmartAccess	✓	✓		✓	✓	✓	✓

Netcomm Network Attached Storage.

NAS-1000 Disk Server Series.

Now you can add gigabytes of accessible, fast, hard-disk-drive storage to your network, without the cost, space, set-up and maintenance hassles of a fully-fledged file server. Ideal for small to medium business or corporate departments, NetComm's NAS-1000 with its easy-to-use configuration wizard and in-built print server allows you to set-up and access network file storage and share a printer in minutes.

NetComm's NAS-1000 family of compact and affordable Network Attached Storage (NAS) is available in a range of sizes to suit the storage needs of today's networks, as and where you need it. The only decision you need to make is how and where to use it.

40GB, 60GB and 80GB also available - call for prices.

RECEIVE AN EXTRA 20GB FREE*



20GB \$1239.00
Websearch Code ...NET244

*When ordering ask for your "Dream Deals" claim form and complete and return to NetComm for redemption. Valid till 31st January 2002. Conditions apply.

NetComm DREAM DEALS

NetComm Roadster II 56 USB

Voted Australia's best USB modem for all-round quality (ICON, SMH May 5-6, 2001). Giving you the fastest, easiest path to connecting with your ISP. Couple this with the proven increased data transfer speeds of USB and you will find yourself working at the fastest speeds available with an analogue modem.

- Simultaneous Voice & Data Transmission
- Speakerphone & Voicemail
- Compatible with Windows 98 & 2000
- Includes desktop faxing & voice software

*When ordering ask for your "Dream Deals" claim form and complete and return to NetComm for redemption of Greater Union movie pass. Valid till 31st January 2002. Conditions apply.



\$175.00
Websearch Code ...NET028

NetComm Roadster II 56 Ultra

This is more than a modem - the Roadster Ultra also acts as an "Out of Office Assistant", giving you multiple voice mailboxes, one for each member of the office. Features NetComm's own enhanced Ultra Connect technology allowing you to connect faster and stay connected!

- K56flex & V.90 connectivity
- Simultaneous Voice & Data transmission
- Speakerphone & Voicemail
- Includes desktop faxing and voice software

*When ordering ask for your "Dream Deals" claim form and complete and return to NetComm for redemption of Greater Union movie pass. Valid till 31st January 2002. Conditions apply.



\$175.00
Websearch Code ...NET207

NetComm Wave SP 56

The NetComm Wave offers speed and reliability, giving business and home users the benefits of 56K Internet and e-mail access, video-conferencing and long-distance Internet phone calls. Included is a headset with built-in boom microphone plus voice and fax software.

- SVD - Simultaneous Voice & Data
- Speakerphone & Voicemail
- Digital line protection
- Includes desktop faxing and voice software

*When ordering ask for your "Dream Deals" claim form and complete and return to NetComm for redemption of Greater Union movie pass. Valid till 31st January 2002. Conditions apply.



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NuMega DevPartner Studio only \$2,999 (inc GST) – Includes 50% off first years subscription.

DevPartner Studio (DPS) is the most comprehensive suite of Windows-based, multi-language developer productivity tools in the market. These quality tools help developers automatically detect, diagnose and facilitate resolution of software errors; maximize code performance; and ensure optimum code coverage and testing. Ask about DPS for C++, VB, Webscript and Java.

"Compuware's Numega Lab has a history of providing Microsoft customers with the best error detection, performance analysis and debugging tools and solutions."

Paul Gross, Vice President of Developer Tools – Microsoft Corporation

\$2999.00
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NuMega
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• DB Partner Debugger for Oracle

(Ask about SQL Server and Sybase deals!)

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• QACenter Website Edition - \$2,900 inc GST

(with 3 months free subscription)

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*** Introductory Offer - Includes 50% off first year's subscription**

Compuware's NuMega product group is part of Microsofts Visual Studio Integration Program (VSIP) and tightly integrates with VisualStudio.NET.



NuMega DevPartner Java Edition

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• Includes 1 year subscription

NuMega DevPartner Java Edition is a suite of software development productivity tools that help developers build reliable, high-performance applications and components with Java technology.

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The Shortest Path to Greater J2EE Application Productivity

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- Business Rules Editor – Add static and dynamic rules at the business level
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NEW!



PROGRAMMING TOOLS

MS Visual Basic 6.0 Pro Upgrade

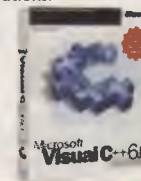
Visual Basic 6 creates high-performance enterprise and Web-based applications. Integrated Visual Database Tools and a RAD environment promote productivity while native code compilation provides fast applications.



\$615.00
Websearch Code ...MS5089

MS Visual C++ 6.0

Tap into the power and productivity of Microsoft Visual C++ 6.0. Take advantage of robust component development, powerful database tools, and full Internet support to build strategic business solutions.



\$1199.00
Websearch Code ...MS5083

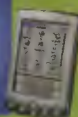
MS Visual FoxPro 6 Pro

The Microsoft Visual FoxPro 6.0 database development system is designed to help you build state-of-the-art desktop, client/server, and Web database applications. You can also write data-intensive components that can be used in distributed solutions and build object-oriented applications with reusable libraries.



\$1045.00
Websearch Code ...129604

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MONITORS

MS Racing Madness 2

Whether it's racing through the streets of Chicago in a new Beetle or kicking off a nac nac on your dirtbike, the Madness bundle provides wild and hair-raising action. Win 95/98.



\$65.00

Websearch Code ...MS5622

MS SQL Server 2000 Standard & 5 Clients

Relational Database Management and Analysis System.

SQL Server 2000 introduces a host of innovative features. Great support for Web standards, powerful tools for system management and tuning, and exceptional scalability and reliability for your money make SQL Server 2000 the best choice for the next generation of enterprise-class database solutions.



\$3245.00

Websearch Code ...MS5649

Opening Hours

Sales lines open:
8:30am until 5:30pm (EST)
Monday to Friday
(except Wednesday 9:00am until 5:30pm)

Pricing

All orders are invoiced inclusive of GST. Prices are subject to change & product availability.*

* See Our Terms & Conditions on page 2.

Sony CPDE100 15" Monitor

Ideal for the home and small office requiring exceptional image performance without sacrificing value or reliability. It's perfect for everything from spreadsheets and finely detailed graphic presentations to browsing the internet and gaming.

- 15" FD Trinitron CRT
- 1280 x 1024 resolution @ 60 Hz
- Digital Multiscan Technology
- 0.24mm Aperture grille pitch (min)
- 3 yr Warranty
- Win/Mac



\$489.00

Websearch Code ...SONY62

Sony CPDE220 17" Monitor

The CPDE220 is ideal for the demanding home or office professional who requires exceptional image performance, without sacrificing value or reliability.

- 17" Flat Trinitron CRT
- 1920 x 1200 resolution @ 60Hz
- Compact, low-rise cabinet
- Digital Multiscan Technology
- 0.24mm Aperture grille pitch (min)
- 3 yr Warranty
- Win/Mac



\$625.00

Websearch Code ...SONY63

Sony CPDG420 19" Monitor

Designed with the professional user in mind, this 19" FD Trinitron offers a visually flat screen and outstanding image performance. Incorporating a style and cabinet colour that will brighten any desktop. CPDG420 will become the standard by which other monitors are judged.

- 19" FD Trinitron Picture Tube
- Compact, low-rise two-tone cabinet
- 1920 x 1440 resolution @60Hz
- 3 yr Warranty
- Win/Mac



\$1365.00

Websearch Code ...SONY64

Sony 15.1" LCD Flat Panel Display - SDMM51

15.1" viewable XGA LCD flat panel display, weighs 4.6kg and 180mm deep. Presents bright and sharp images at resolutions up to 1024 x 768 @ 75Hz. Incorporates our Digital Multiscan Technology with a Horizontal scan range of 28-64kHz.

Zero Footprint Design, Digital FlexRes Technology, Auto ImageSet, 16 million colours, Easy-to-Use OSD Controls, and is International Energy Star Compliant, MPR II, TCO 99.



\$1349.00

Websearch Code ...189336

Sony 15" LCD Flat Panel Display - SDMN50

Combine Sony LCD technology with state of the art design. Finished in Matte Black and Polished Metal, this modern design is suited for high exposure or corporate use. With a media box connected to the panel by a single cable, this display has a minimal footprint, ideal in small places. Built in speakers complete the package.



\$1965.00

Websearch Code ...SONY66

Sony 18.1" LCD Flat Panel Display - SDMM81

The SDMM81 offers bright and sharp images in a wide 18.1" LCD flat panel display, but with a small footprint to fit on any desk. Light grey/blue grey in colour with built in stereo speakers and headphone jack, this represents a new level in LCD monitors.



\$3975.00

Websearch Code ...189082

ViewSonic E70

The 17" ViewSonic E70 is the right choice for SOHO (small office/home office) users and students who are ready to upgrade their smaller monitor... at an affordable price. With its 0.24mm horizontal dot pitch, crisp images and brilliant colours this monitor is ideal for a wide range of applications from word processing, spreadsheets and light graphics to surfing the Internet. It even offers OnView™ controls, which allow the user to make screen adjustments via an on-screen menu.



\$349.00

Websearch Code ...VIE002

ViewSonic E53

Quality that is truly affordable... the ViewSonic E53 colour monitor is exceptional value with features you would only expect from more expensive models. This 15" display is packed with advanced features such as OnView™ controls for easy screen adjustments and ViewMatch™ colours for screen-to-print colour matching. Its anti-static, anti-glare screen treatment helps reduce glare.



\$285.00

Websearch Code ...VIE005

ViewSonic VE150

In offices where space conservation is a concern but strikingly rich colour is essential, the new ViewSonic VE150 flat panel monitor is an outstanding solution. The 15" TFT active matrix display gives users the same approximate viewing area as a 17" CRT monitor while occupying only 25% of the desk area. This state-of-the-art LCD supports 16.7 million colours at resolutions up to 1024 x 768, with low power demands that produce virtually no emissions.



\$875.00

Websearch Code ...VIE004

LG SW775N 17" Monitor

- 17" (15.9" Viewable) FST
- 0.27mm Dot pitch
- Dynamic focus
- Anti-reflective, Anti-Static, Anti-Glare face treatment
- Maximum resolution 1280x1204
- Digital Microprocessor OSD Control
- EPA Energy Star Compliant
- NUTEK compliant
- Warranty: 3 years



\$349.00

Websearch Code ...LGE005

LG SW77M 17" Multimedia Studio Works Monitor

- 17" (13.8" Viewable) FST
- 0.28mm Dot pitch
- Anti-Reflective, Anti-Static, Anti-Glare face treatment
- Digital Microprocessor OSD control
- Maximum res. 1280x1024
- Digital Microprocessor OSD control
- EPA Energy Star Compliant
- NUTEK compliant
- Warranty: 3 years



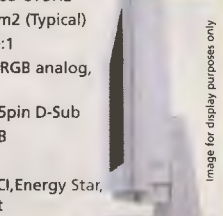
\$485.00

Websearch Code ...LGE003

LG SW575LE 15" LCD Monitor

Features

- 15" LCD Flatron Monitor
- Resolution: 1024x768 @75Hz
- Brightness: 250 cd/m2 (Typical)
- Contrast Ratio: 300:1
- Video Signal Type: RGB analog, Separate H/V
- Input Connector: 15pin D-Sub
- Plug & Play: DDC 2B
- OCD Control
- TCO-99, TUV-GS, VCCI, Energy Star, GOST CE Compliant
- Dimensions (WxDxH): 394x162x379mm (Net)
- Weight: 5.1kg (Net)



\$999.00

Websearch Code ...189340

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AG Neovo TFT LCD Flat Panel Displays

Only a TFT Flat Panel Display from AG Neovo features the Crystal Optical Filter. Both enhancing viewing angles up to 160 degrees and protecting the LCD panel from accidental damage will ensure you get many years of quality use from your investment.

MONITORS



AG Neovo F-15 TFT LCD Display

Looking for the best image quality and Style on a conservative budget, you can't go past the AG Neovo F-15 15" TFT LCD Display. With a bright 15" XGA TFT LCD screen and fantastic image quality the F-15 provides sharp images and accurate colour representation. The Neovo F-15 is the perfect display when upgrading your existing CRT monitor. * Does not have Neovo Crystal Optical Filter

- 15" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 18-bit interface
- 140° viewing angles
- OSD menu with one touch auto adjustment
- 3 yr warranty
- Win/Mac

AG neovo

\$1239.00
Websearch Code189311

AG Neovo S-15V TFT Flat Panel Display

Put the highest quality and styling on your desk with this 15" Neovo TFT Display. The S-15V can be connected to a multitude of devices. With XGA, Composite and S-video inputs you can connect to a DVD, VCR, Camera or even the optional Neovo TV Tuner with remote control.

- PC Authority Recommended Award Sept 2001
- 15" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 18-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo

\$1699.00
Websearch Code189312



AG Neovo M-15V TFT Flat Panel Display

This 15" TFT LCD Display from AG Neovo provides full multimedia capabilities with XGA, S-Video & Composite inputs, stereo speakers and a 4 port USB hub. With Sharp images and accurate colour representation the Neovo M-15V is your best choice for a multimedia display.

- 15" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 18-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- Stereo Speakers with Audio In/Out
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo

\$1845.00
Websearch Code189313

AG Neovo X-174 TFT Flat Panel Display

The AG Neovo X-174 Display provides a generous 17.4" viewable XGA TFT active matrix LCD screen with the highest of image quality and styling. Only Neovo have a Crystal Optical filter which will protect your display and your investment from accidental damage to the LCD membrane. With sharp images and accurate colour representation the Neovo X-174 is the perfect partner for high quality crisp images and sharp text. Featuring DVI input.

- Awarded APC Best Display of 2001 - Nov 2001
- 17.4" viewable XGA TFT active matrix LCD screen
- 400:1 Contrast Ratio
- 16.7 Million Colours 24-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- DVI-I (digital interface)
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo

\$3145.00
Websearch Code189314



AG Neovo S-18 TFT Flat Panel Display

When quality, performance and price are your only concerns, the S-18 from AG Neovo has it all. Connect via XGA, Composite or S-Video, or for true digital graphics the S-18 features DVI connectivity. The AG Neovo S-18 Display provides an enormous 18" viewable XGA TFT active matrix LCD screen with the highest of image quality and styling. With sharp images and accurate colour representation the Neovo S-18 is the perfect TFT display for current 20"/21" CRT users.

- 18" viewable XGA TFT active matrix LCD screen
- 300:1 Contrast Ratio
- 16.7 Million Colours 24-bit interface
- 160° viewing angles
- S-Video & Composite inputs
- DVI-I (digital interface)
- OSD menu with one touch auto adjustment
- Neo V Technology (Crystal Optical Filter)
- 3 yr warranty
- Win/Mac

AG neovo

\$3799.00
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Wireless RF Neovo Keyboard & Mouse



\$268.00
Websearch Code189319

Wall Mount Bracket



\$60.00
Websearch Code189316

External TV Tuner Frame with Remote Control



\$295.00
Websearch Code189317

Wall/Desk mount ARM with Torsion Control



\$489.00
Websearch Code189318

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LOGITECH

Quickcam Pro 3000 USB

QuickCam Pro 3000 takes stunning pictures and videos with a true 640x480 (VGA) resolution. Use its built in microphone to make live video calls to friends and family over the Internet and send exciting email with pictures and videos.



\$215.00

Websearch Code...LOG119

ClickSmart 310

Photo Memories. Capture up to 160 pictures. Transfer them easily to the computer to send photo-mail, create web albums and more. Video Fun. Even record short video clips and share your good times. Video Calls. Chat face to face with friends and family from across the street or across the country.



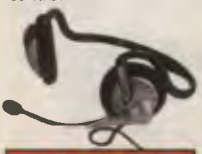
\$169.00

Websearch Code...189284

Labtec Axis 002

Behind-the-Head Stereo Headset with Boom Microphone.

- Ideal for Voice-Ove IP Applications
- Rich Stereo Sound for Gaming, Music and Chat
- New microNCAT-2 (superscript: TM) Noise Cancelling Microphone for speech recognition
- Mute Switch and Volume Control

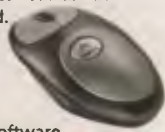


\$65.00

Websearch Code...189285

Mouseman Dual Optical

This advanced mouse employs two optical sensors 800 dpi each! For high-performance, maximum precision, and smoother scrolling. Perfect for use on hard-to-read surfaces such as wood. Comes with custom scroll wheel and patented WebWheel software.



\$85.00

Websearch Code...LOG293

Cordless Mouse Special Edition

Change your mouse color to fit your mood. Choose among four stunning hues: Vivid Blue, Midnight Dusk, Signal Red, or Amber Yellow. Get total cordless freedom. Digital radio technology ensures that your mouse works even when not pointed directly at your computer. Work for months on included batteries. Three-year warranty.

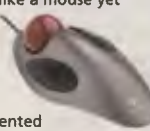


\$89.00

Websearch Code...LOG292

Marble Mouse

Logitech Marble Mouse fits right and left hands like a mouse yet works like a trackball. Save space while reducing hand and wrist movement. Patented Marble optical technology provides superior precision and smooth motion without regular cleaning. Marble Mouse works with PC's and USB-port Macintosh systems. Three-year warranty.

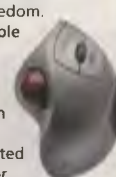


\$79.00

Websearch Code...189287

Cordless TrackMan Wheel

Experience true freedom. Place this comfortable optical trackball where you choose. Its digital radio technology works in a two-metre range without being pointed at the computer. For Windows 2000/98/95/NT 4.0 & Mac OS 8.5. Supports USB and PS/2 interfaces



\$129.00

Websearch Code...LOG002

TrackMan Live

TrackMan Live! gives you cordless freedom for more interactive presentations. Digital radio technology for maximum reliability. No need to point the device at the computer, direct line of sight not necessary. Fits comfortably in your hand. Runs on two AAA batteries.

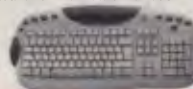


\$295.00

Websearch Code...LOG125

Internet Navigator Keyboard

Navigate the web in maximum comfort. The innovative design features Zero Degree Tilt - the lowest profile keyboard available - to make every keystroke easy. Multimedia controls for your favorite MP3s, DVDs and CDs. Seamlessly connect and navigate the web with iTouch buttons and the iNav scroll wheel. Five-year warranty.

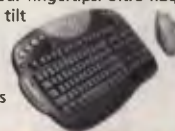


\$75.00

Websearch Code...LOG294

Cordless Freedom Optical

The ultimate cordless keyboard and optical mouse provides less clutter, more style, and more freedom. A revolutionary cordless optical mouse that runs on almost any surface. Internet navigation and multimedia control at your fingertips. Ultra-flat, zero degree tilt design for increased comfort. True cordless reliability.



\$225.00

Websearch Code...LOG129

Cordless Freedom Pro

Without cords, place this keyboard and mouse wherever they are comfortable for you. The curved keyboard with split key layout enhances typing control. The contoured mouse provides maximum comfort and control. USB and 6-pin keyboard ports, USB and PS/2 mouse ports. For Windows 2000/98/95/NT 4.0.



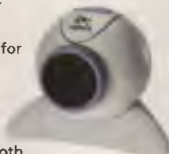
\$210.00

Websearch Code...LOG108

QuickCam Express

QuickCam Express is an Internet video camera offering affordable and simple video and still image Internet communication.

- USB port connector for instant connectivity
- Larger Focus Ring for greater ease of use
- Custom camera base for precision camera positioning
- Up to 30 frames per second video frame rate - TV quality smooth motion video
- Cross platform video/still image E-Mail compatibility
- Software included

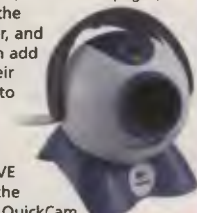


\$95.00

Websearch Code...LOG101

QuickCam Web

Featuring an integrated microphone and an excellent assortment of easy-to-use software the redesigned QuickCam Web has everything you need. Capture video, create web pages, make video calls over the Internet, video monitor, and more. Now anyone can add exciting pictures to their e-mail and send them to friends, with no special software or camera needed by the recipient. Broadcast LIVE video and audio over the Internet. The Logitech QuickCam Web is the perfect Internet Video Camera for everyone.



\$169.00

Websearch Code...LOG107

ClickSmart 510

Shoot it. Save captivating video or keepsake photos with megapixel impact to removable memory cards. Then download it all effortlessly with the new QuickSync system. Its lighted memory button tells you when you have new shots ready to transfer.

Share It. Easily send photos and video via e-mail. Post them on your web site. Or set up your own personal web album with Spotlife.com. Includes built-in flash plus software for editing video and photos. Show it. Make live video calls with the built-in microphone. You can even set up your own web cam.



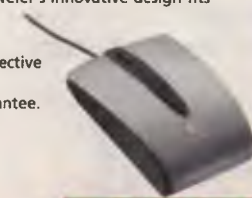
\$335.00

Websearch Code...130998

MouseMan Traveler

Logitech's stylish, compact mouse is specifically designed for notebook use. Travel anywhere with it! The high-performance optical sensor offers smoother scrolling and greater accuracy, and there is no ball to clean.

MouseMan Traveler's innovative design fits comfortably in either hand. Includes a protective carrying case. Five-year guarantee.



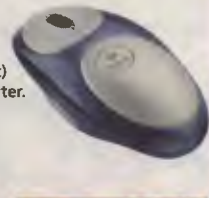
\$118.00

Websearch Code...189286

Cordless MouseMan Optical

Discover the outstanding cordless optical mouse for PC and Macintosh!

There's no cord to limit your movement and it's optical so that you can use it on any surface. Logitech's patented digital radio technology works in a two-meter (six-foot) range of your computer. 5-year guarantee.



\$129.00

Websearch Code...189324

Cordless Freedom iTouch

Enjoy complete control and reliable performance, without cords that catch or tangle. iTouch lets you access the Internet, open e-mail, search, or launch applications with one touch of a key. WebWheel provides quick Web navigation and browser control with the mouse Scroll Wheel. Made by the cordless experts. 3-year warranty.



\$169.00

Websearch Code...130951

Click here to buy . . .

www.iswh.com.au



D-Link DMF-560TXD

PCMCIA Card

The D-Link DMF-560TXD is a Direct Port™ 10/100Mb Dual Speed Ethernet PC Card with an integrated V.90/K56flex Data/Fax Modem. It allows PC or Power MAC laptop users to seamlessly connect to both Ethernet and Fast Ethernet LANs. The D-Link DMF-560TXD also allows users to send and receive faxes, connect to the Internet, and dial into a Remote Access Server or PC using this one PCMCIA PC Card solution.



\$385.00
Websearch Code ...DLK059

D-Link DI-713P

Internet Gateway

The D-Link DI-713P is a broadband IEEE 802.11b compliant wireless gateway. The DI-713P provides the ability to share a broadband connection as well as a print server function. The D-Link DI-713P allows a DSL or Cable Modem connection to be shared through either its three local 10/100 Ethernet ports or via its integrated Wireless IEEE 802.11b component. The DI-713P is equipped with a bi-directional LPT port to support a direct printer connection.



\$829.00
Websearch Code ...DLK070

D-Link DFE-905

Network Kit

Includes the following: 4-port 10/100MB Ethernet hub, 2x 32 bit PCI 10/100MB Ethernet adaptor cards, driver software on disk, 2x 20-foot UTP cables, 1x power adaptor, 2x installation guides and CD with installation manual, network OS drivers, 2x shareware games. Specially packaged for the home and small businesses. It includes everything a network beginner or home user needs.



\$260.00
Websearch Code ...130604

D-Link DU-A2

USB Controller Card

The D-Link DU-A2 is a 2-port Universal Serial Bus USB PCI controller. It allows connection of up to 2 USB peripherals, devices, or USB hubs to a Windows 95 OSR2 or Windows 98 PC. The DU-A2 is targeted at users with older PCs that have no integrated USB support, and users with newer PCs who wish to add additional USB ports.



\$59.00
Websearch Code ...DLK071

DI-701

Cable ADSL Gateway

The D-link DI-701 Residential Gateway protects your computer from hackers or unwanted users. It is the easiest and safest way to share your high-speed internet connection with a DSL Modem or Cable Modem.



\$315.00
Websearch Code ...DLK050

DFM-560E

External 56K Voice and Data Modem

High Speed Fax Modem
Supports handset headset or Half-Duplex, Speakerphone Mode, Windows NT 4.0 & 95/98 Compatible.



\$125.00
Websearch Code ...DLK038

Network Starter Kits

These Network Starter Kits contain everything that Windows users need to start networking right away, all in one box. Within a few minutes, you will be able to share files, printers, and access to the Internet; exchange email; or play interactive network games. By taking the best in networking technology and making it simple and affordable, NETGEAR brings the benefits of networking into the hands and budget of small businesses.



SB105 10 Mbps Ethernet Kit

- One 5-Port ethernet hub
- Two PCI dual-speed network cards
- Two 10 foot network cables
- How-to guides

FB105 100 Mbps Fast Ethernet Kit

- One 5-Port fast ethernet hub
- Two PCI dual-speed network cards
- Two 10 foot network cables
- How-to guides

NETGEAR

\$139.00
Websearch Code ...NET188

\$245.00
Websearch Code ...NET201

Netgear 10Base-T hubs

The NETGEAR 10BASE-T hubs deliver standards-based, plug-and-play networking solutions for small businesses, home offices and low-density workgroups. Featuring a compact design and low cost, these hubs represent value for users seeking the most straightforward and reliable connectivity solution available.



- Resource sharing
- Slim, sturdy metal case design
- BNC/AUI backbone support
- Uplink port for network expansion

\$85.00
Websearch Code ...BAY131

\$89.00
Websearch Code ...NET111

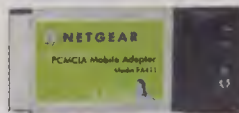


\$395.00
Websearch Code ...189052

Netgear FA411

PCMCIA Card

NETGEAR's FA411 10/100 Mbps PCMCIA Mobile Adapter connects notebook PCs to networked computers, peripherals, and the Internet with 100 Mbps performance at a 10 Mbps price. It auto-detects network speed, and supports legacy and major O/S. There's no dongle to lose or break, and the FA411 comes with a lifetime warranty.



\$125.00
Websearch Code ...NET236

Netgear RP114

Router

NETGEAR's RP114 Cable/DSL Web Safe Router with 4-port switch provides you with multiple Web content filtering options, plus browsing activity reporting and instant alerts via e-mail. Parents and network administrators can establish restricted access policies based on time-of-day, URL and URL keywords while sharing high-speed cable/DSL Internet access.

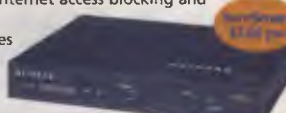


\$422.00
Websearch Code ...NET237

Netgear FR314

Router

NETGEAR's FR314 Cable/DSL Firewall Router provides high-level security for the home and home office, providing worry-free, hardware-based true firewall protection. Share a cable/DSL service among networked computers — Stateful Packet Inspection technology prevents DoS attacks and malicious packets. Includes Internet access blocking and reporting capabilities and is also capable of VPN pass-through.



\$699.00
Websearch Code ...NET248

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MICROSOFT

Windows 2000 Server

The Windows 2000 Server Family integrates standards-based directory, Web, application, communications, file and print services with high reliability, efficient management, and support for the latest advances in networking hardware to provide the best foundation for integrating your business with the Internet.



Microsoft

Server 5 clients
\$1899.00
Websearch Code...M55284

Server 10 clients
\$2725.00
Websearch Code...M55283

MS Golf 2001 Edition

Microsoft Golf 2001 is the easy way to play golf on your PC. With just a few clicks you'll be on the green selecting clubs, navigating doglegs, and lining up putts. No green fees, tee times, or fivesomes up ahead. Just pick your style of play and hear the sweet sound of the club meeting the ball.



\$59.00
Websearch Code...M55619

MS Links 2001

Links 2001 is the most comprehensive upgrade to the series since Links: The Challenge of Golf was introduced 10 years ago. Featuring an all new graphics rendering engine, perfect ball physics, and the new Arnold Palmer Course Designer, Links 2001 delivers the most authentic golfing experience ever available on the PC.



\$69.00
Websearch Code...189264

MS Links Courses Expansion Pack

Expansion pack for Links 2001, featuring new courses with Mike Weir and Keith Clearwater. Also includes revision of Pelican Hill and Banff. Win 95/98/2000.



\$48.00
Websearch Code...M55644

Microsoft Internet Keyboard

One-Touch access to the Internet and more! The Internet Keyboard has 10 Hot Keys on a comfortable standard keyboard design that also includes a detachable palm rest. The Hot Keys allow you to browse the web, or check e-mail directly from your keyboard. The IntelliType Pro software also allows you to customize your hot keys - make the Internet Keyboard work the way you want it to!



\$59.00
Websearch Code...189045

Microsoft Internet Keyboard Pro

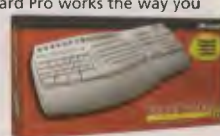
Quick access, complete control. The Internet Keyboard Pro brings 19 Hot Keys and 2 USB ports to a comfortable standard keyboard design that also includes a detachable palm rest. Hot Keys allow you to browse the web, check e-mail, or play a CD directly from your keyboard. The USB ports on the Internet Keyboard Pro enable your latest USB devices directly into your keyboard.



\$85.00
Websearch Code...M55579

Microsoft Natural Keyboard Pro

The Natural Keyboard Pro gives you one-touch access to the Internet, your e-mail, and your favorite multimedia controls. With its powerful IntelliType Pro software and built-in USB ports, the Natural Keyboard Pro combines comfort and control to let you work more efficiently. The Natural Keyboard Pro works the way you want it to!



\$112.00
Websearch Code...MIC205

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Great value made easy.

Microsoft Office V.x for Mac

All four Office applications, Word X, Excel X, PowerPoint X and Entourage X, have been improved, inside and out. On the inside, Quartz. On the outside, Aqua. Just like Mac OS X.



NEW

Upgrade \$595.00 Websearch Code...M55710	Full Version \$949.00 Websearch Code...M55709
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Microsoft Word X for Mac

Microsoft Word X for Mac is a word processing and publishing program for creating home, business, and school documents. Word X, offers a number of advanced features that make it even easier to create professional documents, letters, Web pages, and other printed or online material. A powerful word processing program designed specifically for Mac OS X. Simple, fast, and flexible, Word X continues to set the standard. Now it's easier than ever to make a statement: Whether you're writing a letter or crafting a Web page, Word X has everything you want.

Full Version \$765.00 Websearch Code...131008	Upgrade \$315.00 Websearch Code...131009
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Microsoft Excel X for Mac

Microsoft Excel X for Mac is a powerful spreadsheet program for evaluation, calculating, and analyzing data, as well as creating charts and reports. A powerful and flexible spreadsheet program designed specifically for Mac OS X. With Excel X, it's easier than ever to analyze, report, and share your data. Whether you're a business bean counter or a busy home budgeteer, Excel has the tools you want to get the answers you need.

Full Version \$765.00 Websearch Code...131005	Upgrade \$315.00 Websearch Code...131006
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Pricing

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Microsoft Office XP

With all the features you've come to expect from one of the most successful office suites in the industry plus some brand new ones, Microsoft Office XP is sure to be one of the hottest releases of 2001. Microsoft's Office XP comes in several different versions; Standard, Professional, Special Professional, Developer and Small Business. These versions differ in the applications included in them.

Office XP Line Up

	Professional SE	Professional	Standard	Subscription Professional
Word	Yes	Yes	Yes	Yes
Excel	Yes	Yes	Yes	Yes
Outlook	Yes	Yes	Yes	Yes
PowerPoint	Yes	Yes	Yes	Yes
Access	Yes	Yes		Yes
Publisher	Yes			
FrontPage	Yes			
IntelliMouse	Yes			



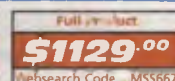
Boxes shown are for full version products

Microsoft

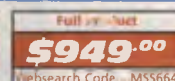
Professional Special Edition



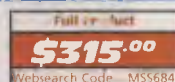
Professional



Standard



Subscription Professional



MICROSOFT

MS Press Windows XP Step by Step

Consumer training and reference.



\$69.00
Websearch Code...MSP094

MS Press Windows XP Inside Out

Advanced user reference.



\$99.00
Websearch Code...189341

MS Press Office XP Inside Out

Advanced user reference.



\$99.00
Websearch Code...MSP080

Microsoft Windows XP Home

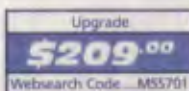
Windows XP Home Edition is an excellent choice for most home users, with exciting new features that help you do more with your computer.

- New visual design makes it easier to do common tasks efficiently.
- Digital photo features let you acquire, organize, and share pictures.
- All-in-one music tool for discovering, downloading, storing, and playback of the highest-quality digital music.
- Everything you need to create, share, and enjoy videos on your computer.
- Easy computer sharing and home networking.
- The ultimate communication tool for instant messaging, voice or video conversations.
- Tools for recovering from problems or getting help from an expert.
- The most reliable, secure, and dependable operating system to keep your system up and running.

From digital photos, music and video to building a home network, Windows XP Home Edition brings you into the digital age with ease.



NEW!



Microsoft Windows XP Professional

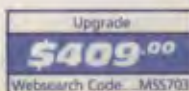
Windows XP Professional, the most full-featured edition, provides the highest levels of performance, productivity, and security. It is the best choice for business users and for home users who demand the most from their systems. All the benefits of Windows XP Home Edition, plus

- Greater security, including the ability to encrypt your files and folders, to protect your business data.
- Premier mobile support for the ability to work offline or access your computer remotely.
- Built-in support for high-performance multiprocessor systems.
- Designed to work with Microsoft Windows Servers and management solutions.
- Communicate efficiently with others around the world by working in any given language.

Goes beyond the benefits of Windows XP Home Edition with advanced capabilities designed specifically to optimise productivity using the latest advancements in the digital world.



NEW!





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JOYSTICKS

Kensington Notebook Microsaver Security Cable

If you own a notebook computer, chances are one in ten it'll be stolen this year, according to recent FBI crime statistics. One thousand notebook computers are stolen every day, and theft is rising. The good news? You can protect your notebooks with the Kensington Notebook MicroSaver ® Security Cable, the industry standard for notebook computer security.



Micro Saver & FlyLight BUNDLE

Kensington FlyLight

USB Notebook Light
The FlyLight USB Notebook Light is the perfect companion for the executive on the go. The small, flexible light plugs into your portable computer's USB port to provide gentle, long-lasting illumination anywhere—on a plane, in a presentation room, or relaxing in bed. Shed some light on your laptop with the FlyLight.



\$89.00

Websearch Code ...KEN031

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(except Wednesday 9.00am until 5.30pm)

Pricing

All orders are invoiced inclusive of GST. Prices are subject to change & product availability.*

* See our Terms & Conditions on page 2.

Microsoft Office Keyboard

Now you can scroll, move between programs, cut, copy, paste, go back and forward - the things you do all the time - at the touch of a button. The unique, left-side Single Touch Pad offers you two-handed control and flexibility for a more efficient way to work. Built for comfort and to make optimum use of Microsoft Office products such as Excel, Word, Outlook, and popular browsers, this is the keyboard designed for the way you really work.



\$115.00

Websearch Code ...130946

Microsoft SideWinder Strategic Commander

Sidewinder Strategic Commander brings your strategy game play to a new level by allowing you to move, deploy and command your forces faster and more efficiently. Its innovative map movement control lets you scroll and spin the map quickly and intuitively, and an ergonomic design puts customizable commands at your fingertips.



\$95.00

Websearch Code ...MSJ008

Microsoft SideWinder Force Feedback 2

Experience the feel of victory. Screaming in at Mach 3, guns blazing as you wrestle with a badly damaged wing, SideWinder Force Feedback 2 puts you right in the cockpit. With a new on-board A/C power supply and optimized feedback system, you will feel every subtle force effect and have a rock solid base to enjoy it. The SideWinder Force Feedback 2 delivers the ultimate stick to players who demand the best.



\$185.00

Websearch Code ...MSJ020

Microsoft SideWinder Game Pad USB

Take control of your game! Microsoft's definitive game pad sets the standard for enhanced game play. USB connection means instant plug and play setup. Optimized layout and an innovative design provide ultimate comfort and seamless integration with sports, action, and racing sports games.



\$49.00

Websearch Code ...MSG001

Microsoft SideWinder Freestyle Pro

How about a game controller that enables you to control the game activity by simply tilting it in the direction you want to move. Nothing controls movement within today's 3-D action games better than the fluid motion of the SideWinder Freestyle Pro. Sit, stand, weave, and bob your way to victory - the SideWinder Freestyle Pro translates your body English into game movements for the ultimate immersive experience.



\$95.00

Websearch Code ...MSJ004

Microsoft SideWinder Joystick

Grab control of your game now! The SideWinder Joystick takes popular flight, action, and combat games to the next level. Packed with professional features, performance, and quality and backed by Microsoft's one year hardware warranty this is the joystick you need. And with a dedicated USB plug, you'll be up and running in no time.



\$60.00

Websearch Code ...MSJ006

GRAVIS

WHEN YOU PLAY - PLAY TO WIN

10515 GRAVIS DESTROYER AFTERSHOCK JOYSTICK

Destroyer AfterShock, the first Gravis joystick with rumble feedback, lets you feel the shockwaves from every hit, crash, and explosion. Boneshaking rumble feedback and precision controls bring you all the action and excitement packed into today's most popular games.

More Power - Three buttons, trigger, throttle and hat switch give you the power to win.

More excitement - AfterShock Rumble Feedback means you feel every hit, explosion, and collision right in your hands.

More versatility - Plug-and-play USB connectivity make it fast and easy to install.

More Accuracy - Precision Mode gives you pinpoint control for unbelievable accuracy and maneuverability.



\$69.00

Websearch Code ...189295

10514 GRAVIS ELIMINATOR PRECISION PRO JOYSTICK

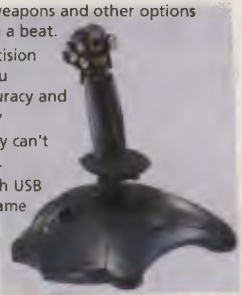
If the twisting handle and throttle aren't enough to get your blood pumping, we've added our revolutionary Weapon Scroll feature that lets you change weapons without slowing down. Then there's our Precision button for unbelievable accuracy and maneuverability to quickly zero in your target. You simply can't lose.

The seven buttons, trigger, throttle and hat switch are all within easy reach.

Use the twist function for rotation and rudder control, or use the twist lock for standard play. The Gravis Weapon Scroll gives you instant, easy access to weapons and other options without missing a beat.

The unique Precision button gives you astounding accuracy and maneuverability when you simply can't make a mistake.

Support for both USB and standard game ports makes installation a cinch.



\$75.00

Websearch Code ...GRA046

10512 GRAVIS DESTROYER XTREME JOYSTICK

This easy-to-use joystick is designed for hours of comfortable gaming.

Get even more accuracy and maneuverability by using the Precision button.

You simply can't miss! And USB connectivity makes getting started so easy with plug and play technology.

Precision button gives you pinpoint accuracy and even greater control.

Three buttons, trigger, and throttle help you win every time.

Easy-to-use, durable, and high-quality comfort for all players.

Plug-and-play USB support makes it easy and fast to install on your PC or MAC.



\$38.00

Websearch Code ...GRA034



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Trellian SubmitWolf 5

Promote your Website! Increase your Traffic!

SubmitWolf PRO is an easy to use, professional website promotional tool, which automates the process of promoting your web pages on the internet. It can dramatically increase the number of visitors to your web site.

SubmitWolf PRO can automatically register your websites with thousands of engines and directories PLUS over 500000 link pages.

How does it work?

Simply enter your website details into SubmitWolf PRO, select the search engines where you would like to be listed and SubmitWolf PRO will do the rest. SubmitWolf PRO automatically visits each engine, download the registration form, fill it in for you and submits it. It does this in exactly the same way as if you did it manually using a browser.



\$125.00
Websearch Code ...130006

Trellian eComm Store

Create your own eCommerce Store in MINUTES!

eComm STORE has been specially designed to cater for eCommerce projects no matter how large or small.

Inventory facilities include, product naming, coding, description, weights, freight costs and product categorization. Any updates to new products and services can be immediately implemented. eComm STORE will work with any Internet service provider where web hosting is available, and can be easily incorporated into an existing website.



\$52.00
Websearch Code ...130908

Trellian Button Factory

Professional Website Graphics in MINUTES!

With Trellian Button Factory you can quickly and easily create stunning buttons, menus, logos and icons for use on your website or multimedia presentations. No previous graphic design experience required. Just use your imagination to create original web graphics that stand out on the Internet.

Trellian Button Factory comes complete with in-built libraries, giving you a range of options to tailor your needs, also taking the hard work out of creating quick professional web graphics. This will give you more time to focus on promoting your website. Use the existing library to customize style, size, shape and color or let Trellian Button Factory help you create new templates.



\$69.00
Websearch Code ...130187

Trellian FTP

Trellian FTP is a file transfer client that allows you to transfer files between your PC and any FTP server on the Internet. It comes complete with a list of the most popular FTP sites so you can access drivers, shareware and other software via the Internet.

Trellian FTP is the next generation of FTP clients, providing many advanced features such as Drag and Drop file transfer, Multi-Site Download and Connection Hammer.

Trellian FTP allows you to quickly and easily upload your website to the Internet. The Compare feature lets you see at a glance which files have been updated or are missing and will upload them with the click of a button. Trellian FTP also stores your web host's profile to make future uploads a breeze.



\$69.00
Websearch Code ...130188

Wacom Intuos2 Serial/USB Tablet

Dramatically improves the performance and feel of working with print and web images - even for the one in every three Photoshop users who are already using a tablet.

Intuos2 improves the ergonomics of pressure-sensitive pen input. The Intuos2 Grip Pen even comes with an extra rubber grip that enables you to remove the DuoSwitch if you prefer. Intuos2 Grip Pen features 1024 levels of tip and eraser pressure, tilt, angle and direction, and two side buttons that act as modifier keys, keystrokes, or mouse buttons.

The Intuos2 high-resolution 2D Mouse (optional extra) is designed for creating paths and the Intuos2 pressure-sensitive Grip Pen for cloning, blending and working with layer masks, you have the right tool for any task.

Intuos2 bundles Corel Painter Classic and Expression 2 Lite. Painter Classic features over 40 pressure sensitive Natural Media tools that give you the power to draw and paint with realistic oil paints, chalks, pastels, colored pencils - even watercolors!

System requirements:

PC - USB version: Windows 98/Me or Windows 2000, serial version also available.

MAC - USB version:
iMac with Mac OS 8.5 or later
or Power Mac with Mac OS 8.5
or later, serial version
also available

Includes Pen only unless
otherwise stated.

Mouse sold separately.



USB 4x5
\$409.00
Websearch Code ...1189279

USB 9x12 (incl. 4D Mouse)
\$869.00
Websearch Code ...130933

USB 12x12
\$869.00
Websearch Code ...189268

Wacom Graphire2 4x5 USB Tablet

Perfect for the digital photographer, budding videographer and computer graphics enthusiast. Each tablet comes with a removable pen stand and clear overlay to make tracing a breeze.

Comes with Wacom's renowned pressure-sensitive pen technology for a more natural and controlled way to retouch and edit your digital photos or to create original artwork on your computer. Features 512 levels of pressure sensitivity. Also perfect for signing your name to documents and for using with handwriting recognition in Microsoft's new Office XP. Graphire2 bundles Corel Painter Classic and Expression 2 Lite. Expression 2 Lite is Drawing software that allows you to reproduce a variety of brush stroke effects, including an Animation stroke brush, Design stroke brush and Water stroke brush effect.

System requirements:

PC - Win 98/2000/ME and working USB port, CD-ROM drive, and colour monitor.

Mac - iMac with Mac OS 8.5 or later or PowerMac with Mac OS 8.0 or later with USB port, CD-ROM drive, and colour monitor.

Includes Pen only. Mouse sold separately.



WACOM

\$175.00
Websearch Code ...189277

INTERNET/ TABLETS

Microsoft Encarta Reference Library 2002



\$169.00
DVDMS5896
CDMS5895

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Websearch Code ...130829

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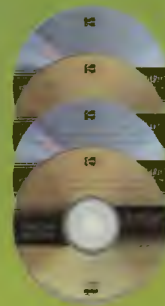
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Kodak Ultima Infoguard 80 Min CD-R Kodak Screen Print 12x in Jewel Case	129418	\$1.99
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Kodak Ultima Infoguard 80 Min CD-R 10 Pack Kodak Screen Print 12x in Jewel Case	189331	\$19
Kodak Ultima Infoguard 80 Min CD-R 10 Pack No Screen Print 12x in Jewel Case	KOD082	\$19
Kodak Ultima Infoguard 80 Min CD-R 50 Spindle Pack No Screen Print 12x	189342	\$75
Kodak Ultima Infoguard 80 Min CD-R 50 Spindle Pack Kodak Screen Print 12x	189343	\$69
Kodak CD-RW 10 Pack Kodak Screen Print 4x in Jewel Case	189344	\$35
Kodak DVD-RW 5.2GB 5 Pack (Must be compatible with DVD-RAM Book 1 specs)	189345	\$149



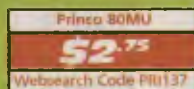
Kodak CD Media

CD-R Gold Ultima and Ultima 80 - The only disc that has gold in its silver reflective layer. Lasts up to six times longer than silver-only discs. CD-RW Rewritable CD for quality rewrites, again and again.

PRINCO CD Media



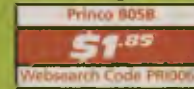
- 80 min audio
- Multi-speed capable
- Ideal for audio & HiFi CDR's



- 80Min/700MB
- Re write 1000+times
- 4x CD-RW compatible



- 80Min/700MB
- Silver-blue recording surface
- 16x recording certified



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Verbatim CD-R and CD-RW discs feature a proprietary Metal AZO dye (which offers the best protection against sunlight), multi-speed recording, scratch-resistant, protective coating, a fully printable surface and across the board writer compatibility.

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DataLife Plus 10 pack CD-R 80min 700mb 1x-16x	VER124	\$16.50
DataLife Plus 25 pack coloured CD-R 80min 700mb 1x-12x	VER123	\$34.95
DataLife Plus Single CD-R 74min 650mb 1x-16x	VER043	\$1.65
DataLife Plus Single CD-RW 74min 650mb 2x-4x	VER081	\$3.95



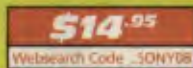
Sony 10CDQ74N1

16X 10pk CDR (650mb/ 74min)
Features: Sony CDR 16X-1X write compatible, Sony branded CDR in an individual jewel case, Wide Recording Power Margin, New organic dye and reflective layer, Super precise mastering and stamping



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Sony CDRW650HS

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HP DESKJET 990C	\$690
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- 4 Channel 3D Audio
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- Seagate 40.1 GB 7200 rpm HDD
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- Sony CD RW (40x24x10)
- Sony 16x DVD-ROM
- Sony 1.44 MB Floppy
- Seagate 60.1 GB 7200 rpm HDD
- Creative Audigy Digital Entertainment
- Cambridge FPS1000 5-piece Spkrs
- Motorola 56K Fax/Voice
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AMD Duron 1 GHz	\$157
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AMD K7 Athlon 1.3 Ghz	\$259
AMD Athlon XP1500+	\$285
AMD Athlon XP1600+	\$295

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20 GB 7200 rpm Hard Drive	\$175
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ECS SIS 735 DDR/SDR K7S5A	\$149
Asus A7A266-E DDR & SDR M/B	\$276
Asus A7V266-E DDR & SDR M/B	\$345
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Gigabyte GA-7VTXE DDR / XP	\$219

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64 MB Geforce 2 MX 400 +TV OUT	\$140
32 MB Geforce 2 Titanium AGP	\$175
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64 MB Kyro 2 AGP with TVOUT	\$159
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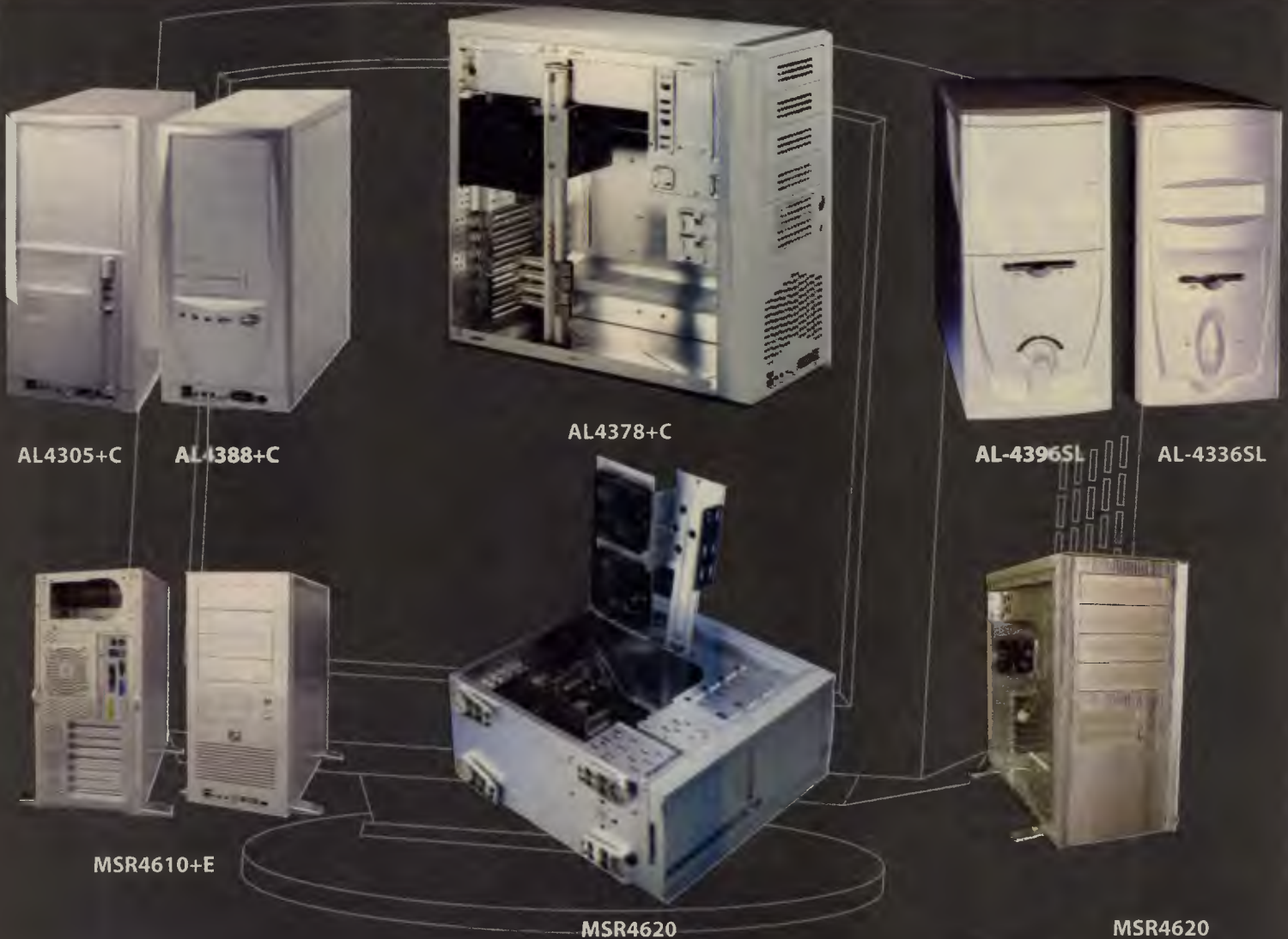
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eTesting Labs Inc. Business Winstone™ 2001, v1.0



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20GB HD 7200rpm

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30GB HD 7200rpm

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60GB HD 7200rpm

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Leadtek 64m GrforceTi TV\$345

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PSII Keyborad

Multimedia K/B

MS Internet KIT

Logitech cordless KIT

A4 Wireless Mouse

Logitech optical USB/ps2

[MORE....]

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GA-6VME7 Creative Sound

GA -8IDML-C

ASUS P4BM C8337 Sound

[More.....]

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CANON BJC-2100

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EPSON C20UX

EPSON C40U/SX

EPSON C60UX

EPSON 810PHOTO

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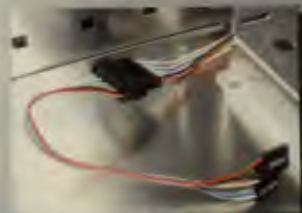
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Tel: 03-9693 6699 www.digilord.com.au

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TDU will play 1 or more pre-recorded messages as soon it is triggered by a movement sensor, a switch, or at a preset time interval. Ideal for Product Promotions, Product Information, Message Warnings etc.



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MIU allows for up to 12 separate movement sensors or switches to be connected to the TDU. Each sensor triggers its own unique message, output via any 8 ohm unpowered, powered or amplified speaker.



SPEAKER SWITCHING UNIT

SSU allows for up to 12 separate speakers to be connected to the TDU so that each sensor triggers its own separate message, output on its own separate speaker. Background music can be played at all other times.



AUDIO SWITCHING UNIT

ASU allows the TDU to be connected to any existing PA or Background Music system. The existing PA or Background Music system is then muted or faded whenever a TDU message is broadcast and then reconnected when finished.



CONTROL YOUR EQUIPMENT BY TELEPHONE LINE

REMOTE TELEPHONE ACTIVATOR

Call in to Switch ON, Switch OFF or RESET your PC, SERVER or any electrical equipment by telephone line using touch tone commands. RTA connects to any telephone line. Requires PCU or PCR accessory.



RTA-PRO VERSION

PRO version provides independent control of 2 separate outputs, with PIN number security. Status tones for each output are provided on answer. Shares an existing line when used with the Multiple Number service.



POWER CONTROL UNIT

PCU connects direct to the RTA and also to your power socket to allow telephone line dial in switching of the 240V supply connected to your equipment. Easy Plug In User Installation. Controls up to 10 Amps.



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PCR connects to any PC to allow remote telephone PC RESET, or can also be used to turn ON or OFF PC's with ATX style motherboards. Easy User Installation.



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Our single line CALL ATTENDANT will answer your incoming calls after 4, 6 or 8 rings, play a greeting & message to your callers until you are able to answer. Also provides Message on Hold facility.



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DOOR STATION UNIT

Will RING all of your telephones when a visitor arrives at your front door or gate. Answer to communicate. Open the door or gate with touch tones. Operates on any ordinary single line or multi-line phone system. Requires Door Phone.



SURFACE MOUNT DOOR PHONE

This unit provides for quick and easy mounting direct onto any wall surface. Your visitor just presses the integral call button to ring your telephones. Provides clear 2 way communication as soon as you answer.



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This attractive Stainless Steel unit is designed for a flat recessed fit into your wall surface. Your visitor just presses the integral call button to ring your telephones. Provides clear 2 way communication as soon as you answer.



TELEPHONE CALL TRANSFER

Easy-Transfer allows you to answer a call on one telephone and then TRANSFER the call to another telephone fitted to the same line. Also provides INTERCOM facility. Uses your existing telephones.



TELEPHONE LINE SIMULATORS FOR TESTING, TRAINING, DEMONSTRATION

RINGMASTER STD

Will allow any 2 telephone devices to ring and communicate with each other, without the need to make costly calls and occupy 2 lines. Ideal for Testing, Training & Demonstration of all telephone devices.



RINGMASTER PRO

Provides all facilities of the STD model, and in addition provides Australian Dial Tone, Busy Tone and multiple ring outputs including FaxStream Duet & Multiple Number ring. Also available with USA, UK, or other output.



RINGMASTER CU

Provides all facilities of the PRO model and in addition will generate CallerID (Calling Number Display) output in conjunction with any Telstra ring pattern. Provides 10 preset outputs, plus Alphanumeric & user definable transmissions.

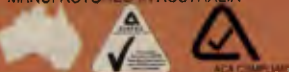


INTERNATIONAL & METER PULSE

International Version provides switch selectable dial tone, busy tone and ring output emulation for over 20 countries. Meter Pulse model will output 12 kHz meter pulses for payphone/hotel testing



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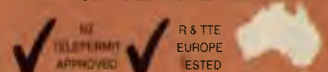
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Satellite Pro 4600 PIII 900MHz 128Mb 20Gb 8xDVD 14.1" TFT 56K 10/100 W98	\$3,400
Satellite Pro 4600 PIII 900MHz 128Mb 20Gb 8xDVD 14.1" TFT 56K 10/100 W2K	\$3,590
Satellite Pro 4600 PIII 1Ghz 128Mb 30Gb 8xDVD 14.1" TFT 56K 10/100 W98	\$3,858
Satellite Pro 4600 PIII 1Ghz 128Mb 30Gb 8xDVD 14.1" TFT 56K 10/100 W2K	\$4,030
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Portege 4000 PIII 750MHz 128Mb 20Gb 56K F/M 12.1" TFT Wireless Lan Win2K	\$4,725
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600W Subwoofer Speaker

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52 Speed CD-ROM Acer
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120W Power Speakers

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Canon N1240U USB Scanner	\$265
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Creative Live Platinum	\$325
Creative Audigy DE	\$195
Creative Audigy Platinum	\$400
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Macase Deluxe 300W ATA Case
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Add on Monitor List

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Acer 15" LCD With Speaker	\$785
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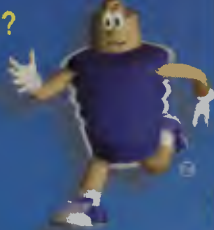


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CANON BJC-2000/4000/4100/4200/4300/4550/5000/5500 BCI-21 45
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CANON BJC 3000/6000/6500	6	C19
CANON BJC 7000/7100	6	C15
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HP DESKJET 700/800/900/1100/1200 SERIES	6	H13
HP DESKJET 1200 B, Y, C, M	6	H8
EPSON STYLUS COLOUR 750/900/1200	12	E#
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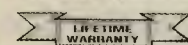
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